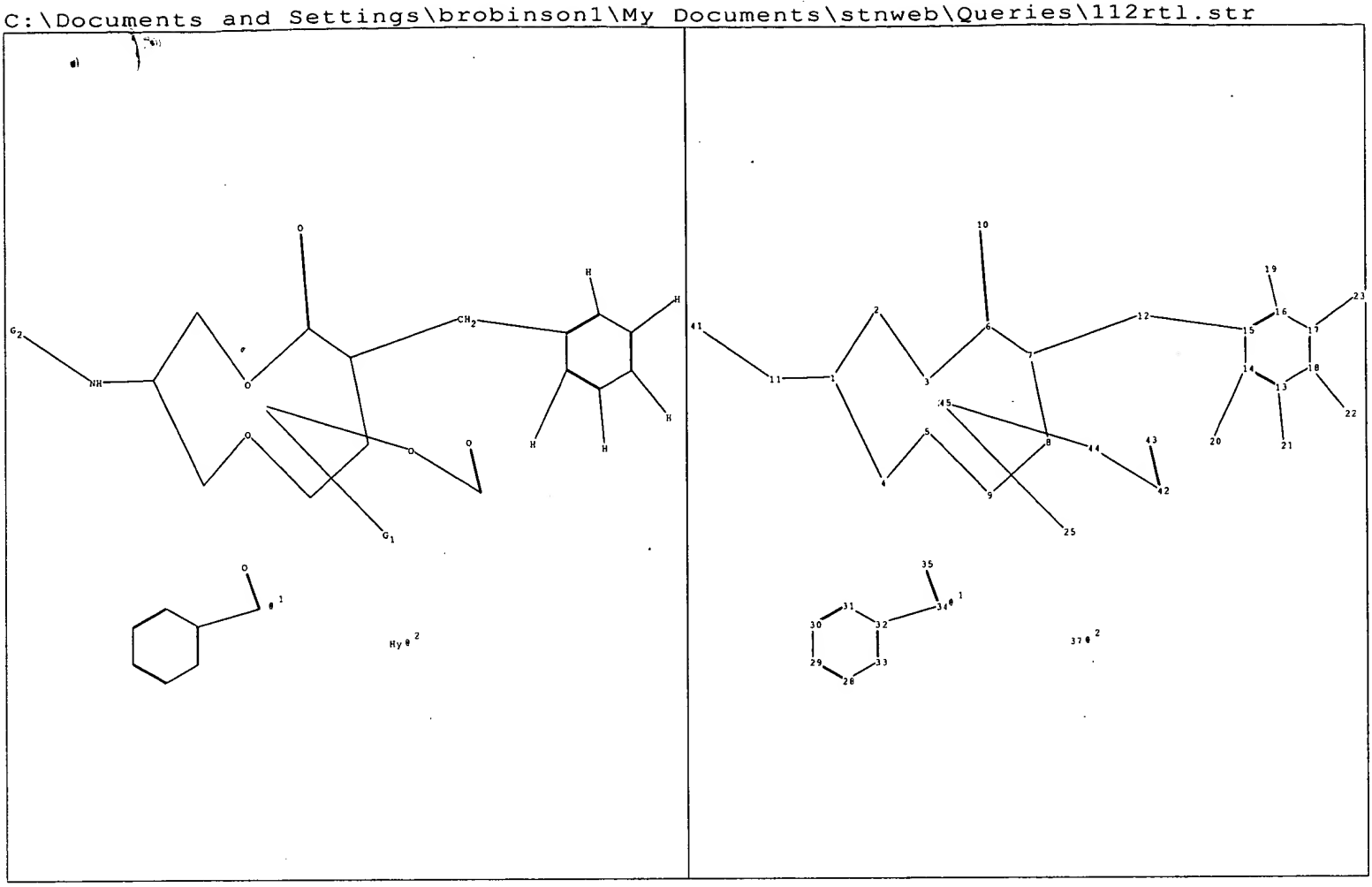
C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\112rtl.str



chain nodes :
10 11 12 19 20 21 22 23 25 34 35 37 41 42 43 44
ring nodes :
1 2 3 4 5 6 7 8 9 13 14 15 16 17 18 28 29 30 31 32 33
chain bonds :
1-11 6-10 7-12 11-41 12-15 13-21 14-20 16-19 17-23 18-22 32-34
34-35 42-43 42-44
ring bonds :
1-2 1-4 2-3 3-6 4-5 5-9 6-7 7-8 8-9 13-14 13-18 14-15 15-16
16-17 17-18 28-29 28-33 29-30 30-31 31-32 32-33
exact/norm bonds :
1-11 6-10 11-41 34-35 42-43 42-44
exact bonds :
1-2 1-4 2-3 3-6 4-5 5-9 6-7 7-8 7-12 8-9 12-15 13-21 14-20
16-19 17-23 18-22 32-34
normalized bonds :
13-14 13-18 14-15 15-16 16-17 17-18 28-29 28-33 29-30 30-31 31-32
32-33
isolated ring systems :
containing 1 : 13 : 28 :

G1:CH3,Et

G2:H,[*1],[*2]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:CLASS 11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom
18:Atom 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 25:CLASS
26:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:CLASS
35:CLASS 37:Atom 41:CLASS 42:CLASS 43:CLASS 44:CLASS 45:Atom
Generic attributes :
37:

Saturation : Unsaturated

Element Count :
Node 37: Limited
N,N2
C,C7

09601655

```
=> d his

     (FILE 'HOME' ENTERED AT 14:26:42 ON 21 MAR 2007)

     FILE 'REGISTRY' ENTERED AT 14:26:53 ON 21 MAR 2007
L1                STRUCTURE UPLOADED
L2             14 S L1
L3            277 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 14:39:46 ON 21 MAR 2007
L4             25 S L3
L5              4 S L4 AND SAKANAKA, O?/AU
L6             21 S L4 NOT L5
L7              0 S L6 AND MITOMO, K?/AU
L8              0 S L6 AND TAMURA, T?/AU
L9              0 S L6 AND MURAJ, Y?/AU
L10             0 S L6 AND IINUMA, K?/AU
L11             0 S L6 AND TERAOKA, T?/AU
L12             0 S L6 AND KUZUHARA, K?/AU
L13             0 S L6 AND MIKOSHIBA, H?/AU
L14            12 S L6 AND TANIGUCHI, M?/AU

     FILE 'CAOLD' ENTERED AT 14:46:48 ON 21 MAR 2007

=> s l3
L15             0 L3

=>
```

Updated Search

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Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1612bxr

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	DEC 18	CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS 4	DEC 18	CA/CAplus patent kind codes updated
NEWS 5	DEC 18	MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS 6	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 7	DEC 27	CA/CAplus enhanced with more pre-1907 records
NEWS 8	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 9	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 10	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 11	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 12	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 13	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 14	JAN 29	PHAR reloaded with new search and display fields
NEWS 15	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 16	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 17	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 18	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 19	FEB 26	MEDLINE reloaded with enhancements
NEWS 20	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS 21	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 22	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 23	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 24	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 25	MAR 16	CASREACT coverage extended
NEWS 26	MAR 20	MARPAT now updated daily

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

Updated Search

09601655

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FILE 'HOME' ENTERED AT 14:26:42 ON 21 MAR 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:26:53 ON 21 MAR 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8
DICTIONARY FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\112rtl.str

L1 STRUCTURE UPLOADED

=> s l1
SAMPLE SEARCH INITIATED 14:39:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 23 TO ITERATE

100.0% PROCESSED 23 ITERATIONS 14 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:	ONLINE	**COMPLETE**
	BATCH	**COMPLETE**
PROJECTED ITERATIONS:	173 TO	747
PROJECTED ANSWERS:	56 TO	504

L2 14 SEA SSS SAM L1

Updated Search

09601655

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 14:39:44 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 477 TO ITERATE

100.0% PROCESSED 477 ITERATIONS 277 ANSWERS
SEARCH TIME: 00.00.01

L3 277 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	181.10	181.31

FILE 'HCAPLUS' ENTERED AT 14:39:46 ON 21 MAR 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907 - 21 Mar 2007 VOL 146 ISS 13
FILE LAST UPDATED: 20 Mar 2007 (20070320/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l3
L4 25 L3

=> s l4 and sakanaka, o?/au
25 SAKANAKA, O?/AU
L5 4 L4 AND SAKANAKA, O?/AU

=> d l5, ibib abs hitstr, 1-4

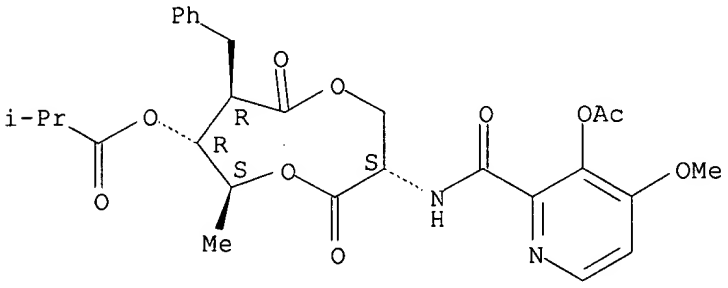
L5 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:286346 HCAPLUS
DOCUMENT NUMBER: 143:315
TITLE: Semi-synthesis and biological evaluation of analogues of UK-2A, a novel antifungal antibiotic from Streptomyces sp. 517-02
AUTHOR(S): Usuki, Yoshinosuke; Mitomo, Koichi; Adachi, Noriko; Ping, Xu; Fujita, Ken-Ichi; Sakanaka, Osamu; Iinuma, Katsuharu; Iio, Hideo; Taniguchi, Makoto

Updated Search

09601655

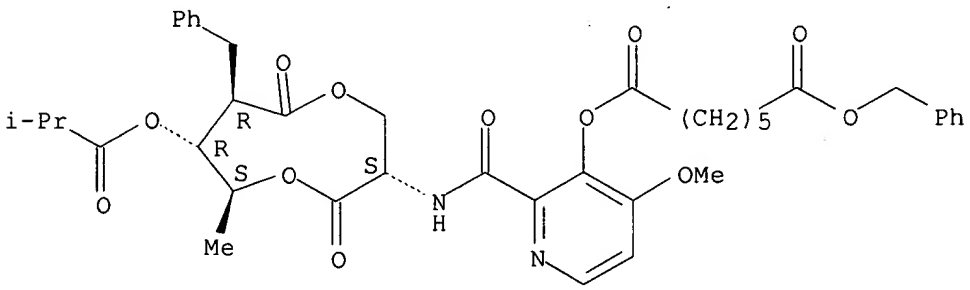
CORPORATE SOURCE: Department of Material Science, Graduate School of Science, Osaka City University, Sumiyoshi-ku, Osaka, 558-8585, Japan
SOURCE: Bioorganic & Medicinal Chemistry Letters (2005), 15(8), 2011-2014
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 143:315
AB Several analogs of UK-2A, a novel antifungal antibiotic isolated from Streptomyces sp. 517-02, were semi-synthesized for structure-activity studies. In vitro antifungal activities of these compds. against Saccharomyces cerevisiae IFO 0203 were evaluated by the conventional paper disk method. Several derivs. exhibited growth inhibitory activity similar to UK-2A.
IT 234112-93-7P 234113-05-4P
RL: PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(semi-synthesis and antifungal antibiotic activity of analogs of UK-2A from Streptomyces sp. 517-02)
RN 234112-93-7 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234113-05-4 HCAPLUS
CN Heptanedioic acid, 4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

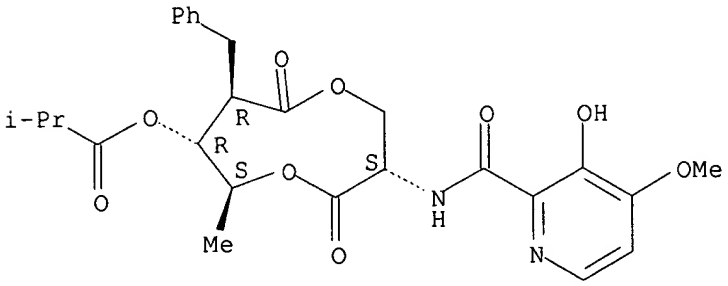


Updated Search

09601655

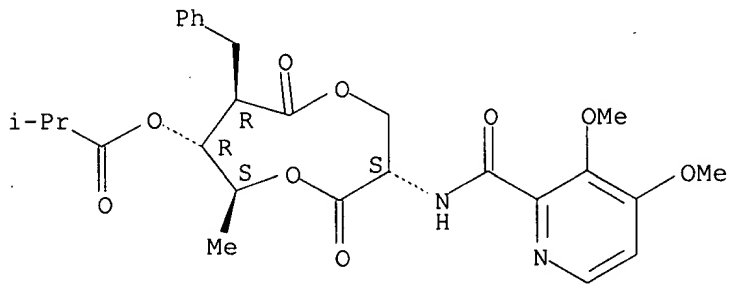
IT 167173-85-5, UK-2A
RL: PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(semi-synthesis and antifungal antibiotic activity of analogs of UK-2A from Streptomyces sp. 517-02)
RN 167173-85-5 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 186528-19-8P 215798-04-2P 234112-79-9P
234112-83-5P 234112-92-6P 234113-08-7P
234113-13-4P 234113-22-5P 852473-21-3P
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(semi-synthesis and antifungal antibiotic activity of analogs of UK-2A from Streptomyces sp. 517-02)
RN 186528-19-8 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3,4-dimethoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

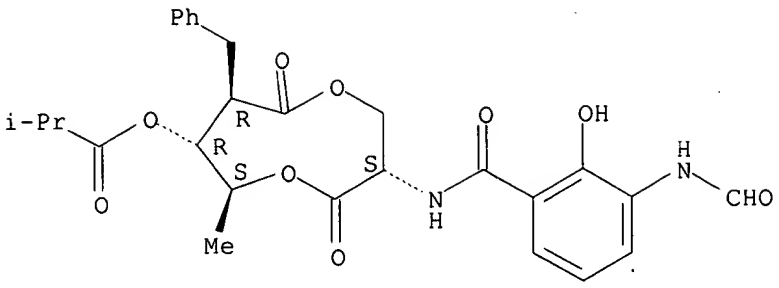
Absolute stereochemistry.



RN 215798-04-2 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[3-(formylamino)-2-hydroxybenzoyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

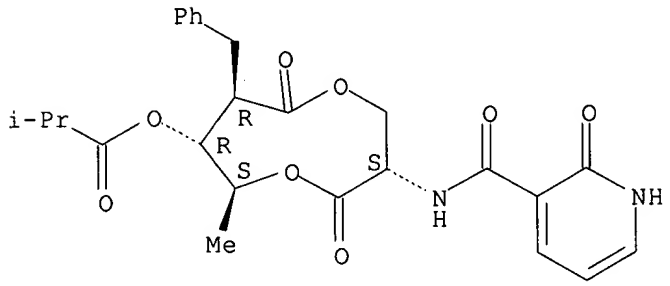
Absolute stereochemistry. Rotation (+).

Updated Search



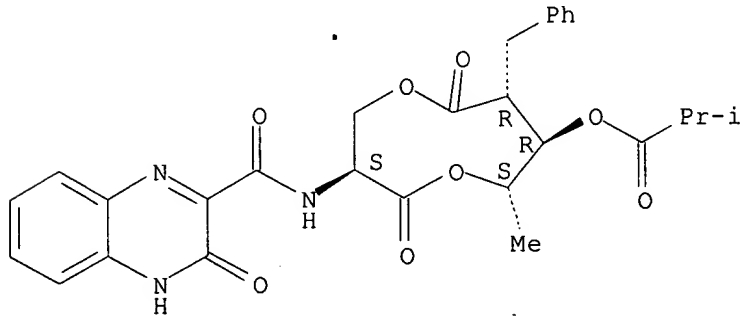
RN 234112-79-9 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(1,2-dihydro-2-oxo-3-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234112-83-5 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3,4-dihydro-3-oxo-2-quinoxalinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

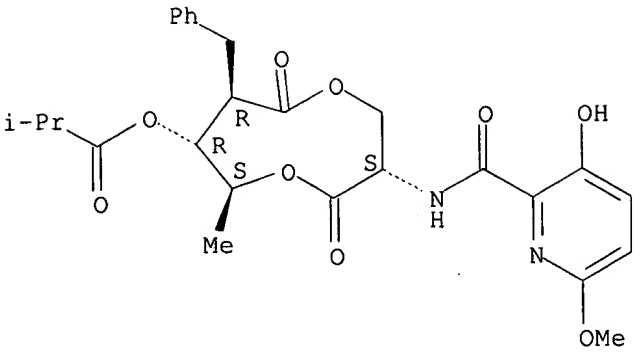
Absolute stereochemistry.



RN 234112-92-6 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-6-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

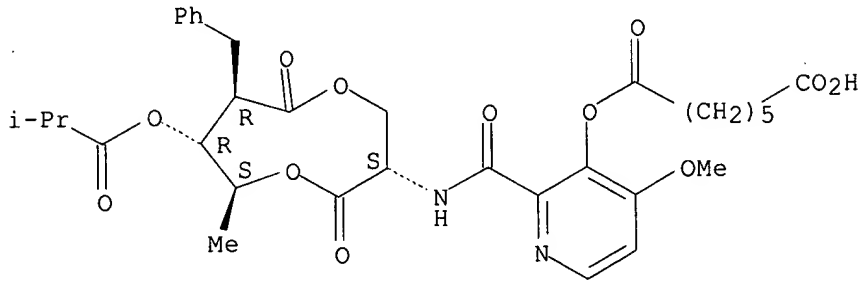
Absolute stereochemistry.

Updated Search



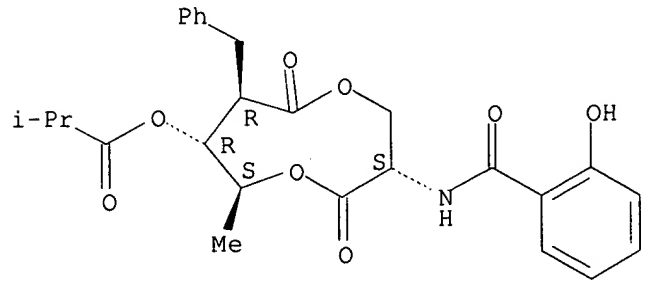
RN 234113-08-7 HCAPLUS
CN Heptanedioic acid, mono[4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234113-13-4 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[(2-hydroxybenzoyl)amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

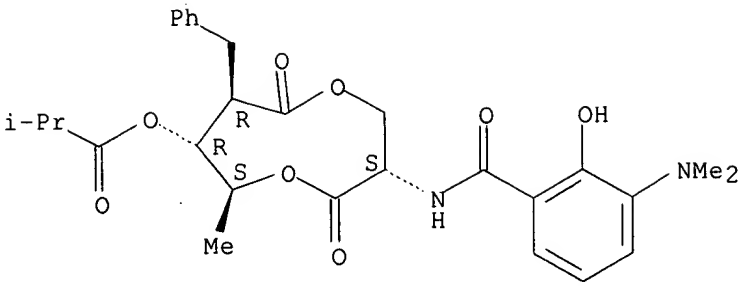
Absolute stereochemistry.



RN 234113-22-5 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[3-(dimethylamino)-2-hydroxybenzoyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

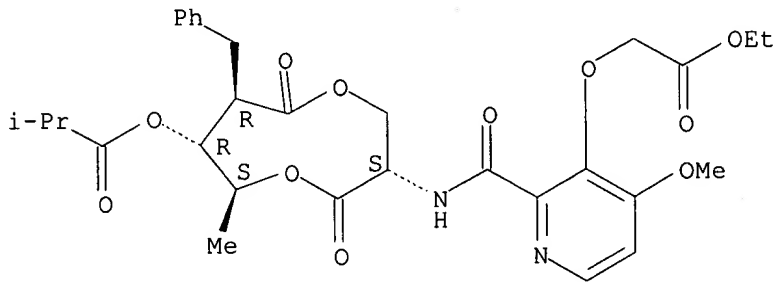
Absolute stereochemistry.

Updated Search



RN 852473-21-3 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[3-(2-ethoxy-2-oxoethoxy)-4-methoxy-2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

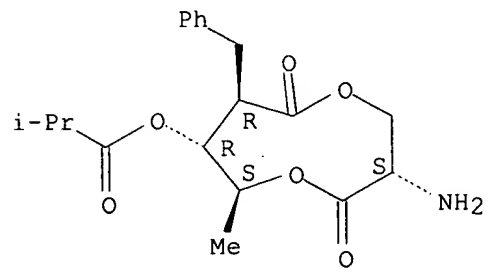


IT 234112-77-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(semi-synthesis and antifungal antibiotic activity of analogs of UK-2A from Streptomyces sp. 517-02)
RN 234112-77-7 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,9R)-3-amino-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 210300-07-5
CMF C19 H25 N O6

Absolute stereochemistry.

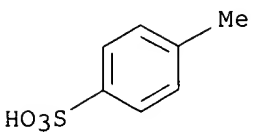


Updated Search

09601655

CM 2

CRN 104-15-4
CMF C7 H8 O3 S



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

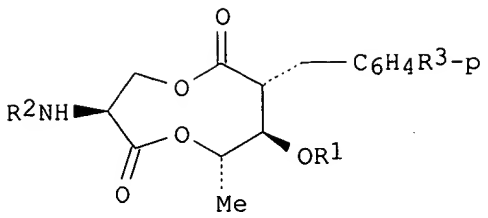
L5 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:511149 HCAPLUS
DOCUMENT NUMBER: 131:129825
TITLE: Novel antifungal compounds and process for producing the same
INVENTOR(S): Sakanaka, Osamu; Teraoka, Takeshi; Mitomo, Koichi; Tamura, Takayoshi; Murai, Yasushi; Iinuma, Katsuharu; Kuzuhara, Kikuko; Mikoshiba, Haruki; Taniguchi, Makoto
PATENT ASSIGNEE(S): Meiji Seika Kaisha, Ltd., Japan
SOURCE: PCT Int. Appl., 92 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9940081	A1	19990812	WO 1999-JP541	19990208
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2319807	A1	19990812	CA 1999-2319807	19990208
AU 9924398	A	19990823	AU 1999-24398	19990208
AU 751098	B2	20020808		
EP 1054011	A1	20001122	EP 1999-903901	19990208
EP 1054011	B1	20060913		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NZ 506249	A	20030429	NZ 1999-506249	19990208
AT 339410	T	20061015	AT 1999-903901	19990208
PRIORITY APPLN. INFO.:			JP 1998-26257 A	19980206
			WO 1999-JP541 W	19990208

OTHER SOURCE(S): MARPAT 131:129825
GI

Updated Search

09601655



I

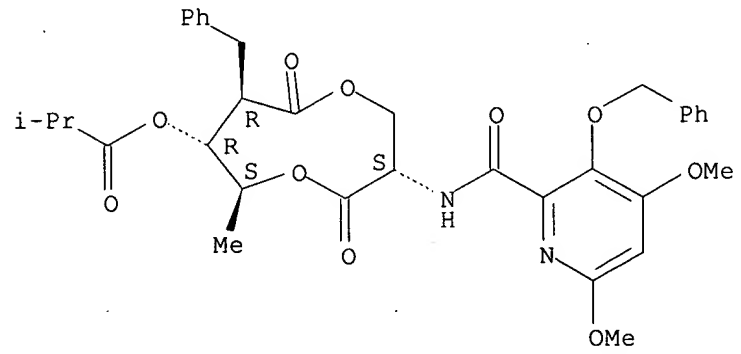
AB The title compds. [I; R1 = iso-Bu, tigloyl, isovaleryl, 2-methylbutanoyl; R2 = H, aromatic acyl, protecting group such substituted benzoyl, substituted nicotinoyl; R3 = H, nitro, amino, acylamino, N,N-dialkylamino; with provisos] are prepared Thus, UK-2A in CH2Cl2 containing pyridine and PCl5 was refluxed for 1.5 h, the reaction mixture was allowed to cool and then reacted with methanol for 15 h to give (2R,3R,4S,7S)-7-amino-2-benzyl-5,9-dioxa-3-isobutyryloxy-4-methyl-1,6-cyclononanedione. In an antifungal test, (2R,3R,4S,7S)-7-(2-hydroxynicotinylamino)-2-benzyl-5,9-dioxa-3-isobutyryl-4-methyl-1,6-cyclononanedione (also prepared) at 0.05 μg showed potency almost double that of UK-2A against Saccharomyces cerevisiae.

IT 234112-85-7P 234112-86-8P 234112-88-0P
234112-89-1P 234112-90-4P 234113-05-4P
234113-06-5P 234113-14-5P 234113-15-6P
234113-16-7P 234113-17-8P 234113-21-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of UK-2A derivs. as antifungals)

RN 234112-85-7 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[4,6-dimethoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



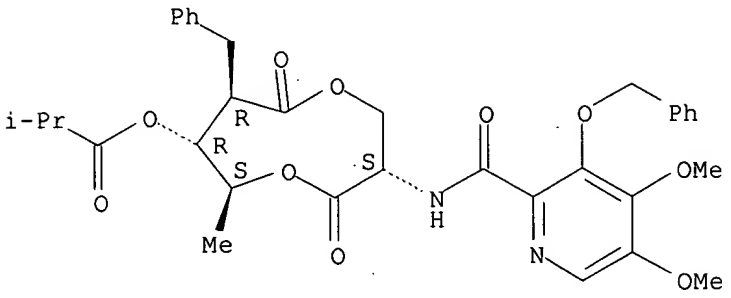
RN 234112-86-8 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[4,5-dimethoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-

Updated Search

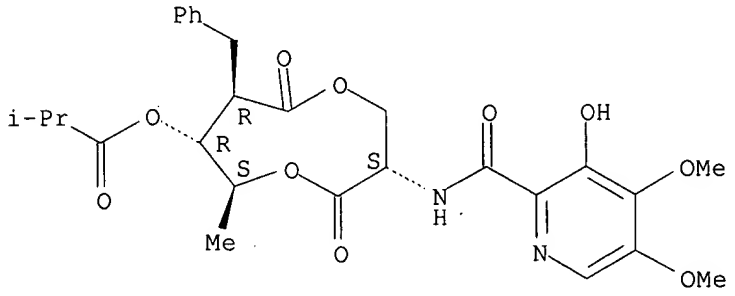
(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



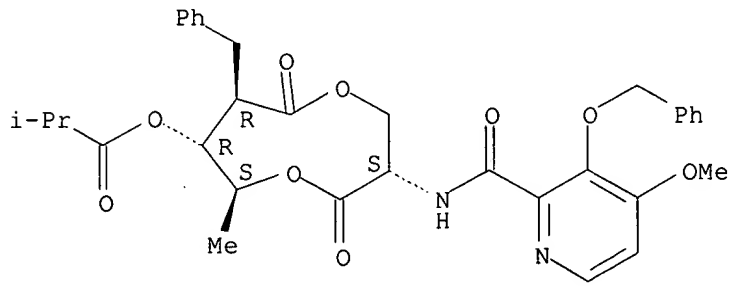
RN 234112-88-0 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4,5-dimethoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234112-89-1 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[4-methoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

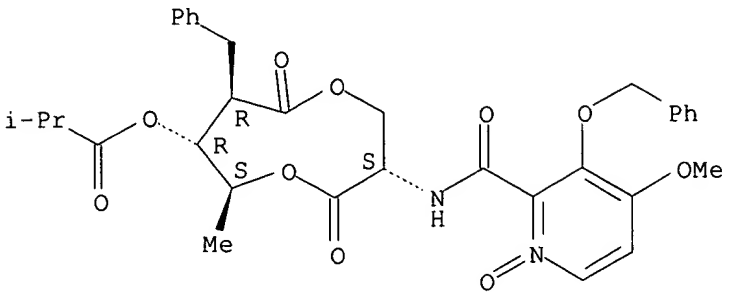


RN 234112-90-4 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[4-methoxy-1-oxido-3-(phenylmethoxy)-2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-

Updated Search

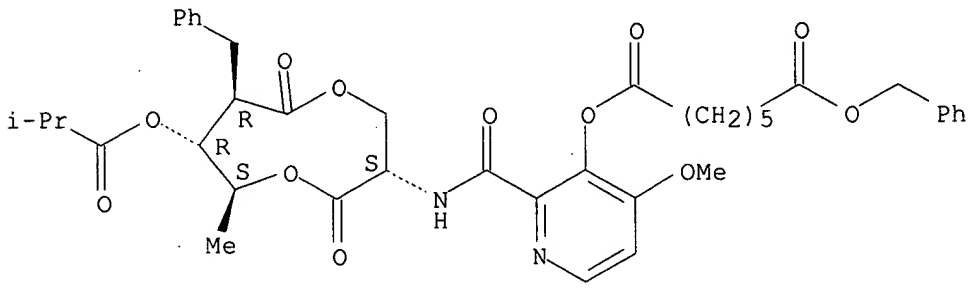
(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



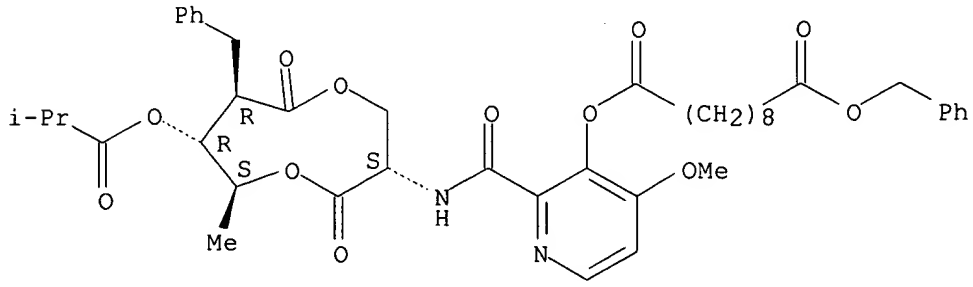
RN 234113-05-4 HCAPLUS
CN Heptanedioic acid, 4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234113-06-5 HCAPLUS
CN Decanedioic acid, 4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

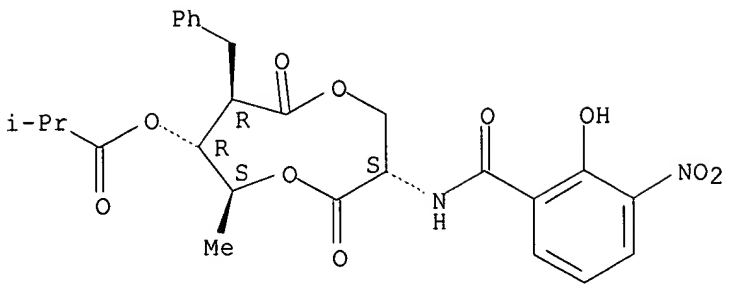


RN 234113-14-5 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[(2-hydroxy-3-nitrobenzoyl)amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Updated Search

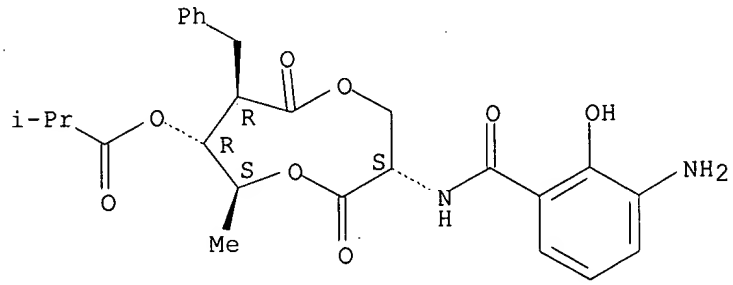
09601655

Absolute stereochemistry.



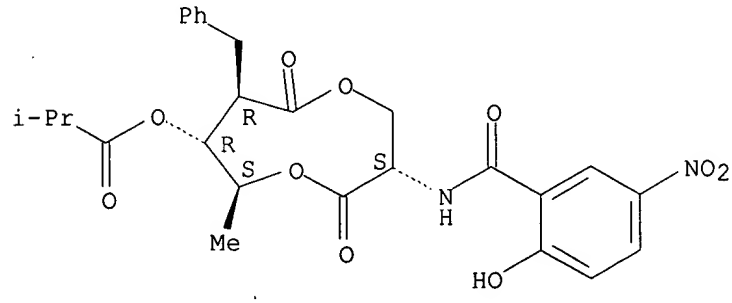
RN 234113-15-6 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[(3-amino-2-hydroxybenzoyl)amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234113-16-7 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[(2-hydroxy-5-nitrobenzoyl)amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

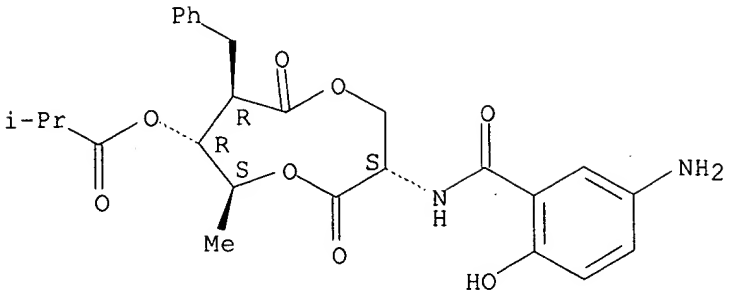


RN 234113-17-8 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[(5-amino-2-hydroxybenzoyl)amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Updated Search

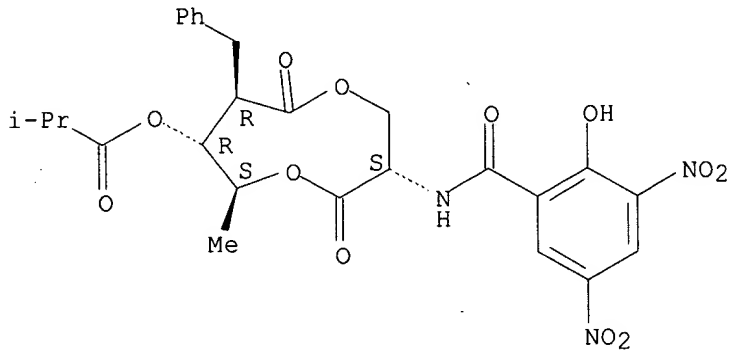
09601655

Absolute stereochemistry.



RN 234113-21-4 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[(2-hydroxy-3,5-dinitrobenzoyl)amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

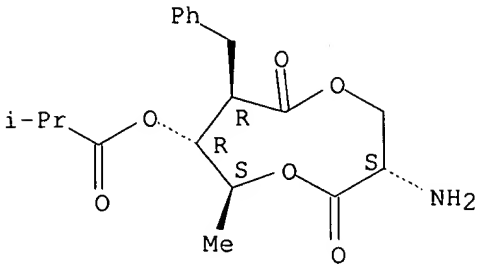
Absolute stereochemistry.



IT 210300-07-5P 215798-04-2P 215798-05-3P
234112-77-7P 234112-78-8P 234112-79-9P
234112-80-2P 234112-81-3P 234112-82-4P
234112-83-5P 234112-84-6P 234112-87-9P
234112-91-5P 234112-92-6P 234112-93-7P
234112-94-8P 234112-95-9P 234112-96-0P
234112-97-1P 234112-98-2P 234112-99-3P
234113-00-9P 234113-01-0P 234113-02-1P
234113-03-2P 234113-04-3P 234113-07-6P
234113-08-7P 234113-09-8P 234113-10-1P
234113-11-2P 234113-12-3P 234113-13-4P
234113-18-9P 234113-19-0P 234113-20-3P
234113-22-5P 234113-23-6P 234113-24-7P
234113-25-8P 234113-30-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of UK-2A derivs. as antifungals)
RN 210300-07-5 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,9R)-3-amino-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

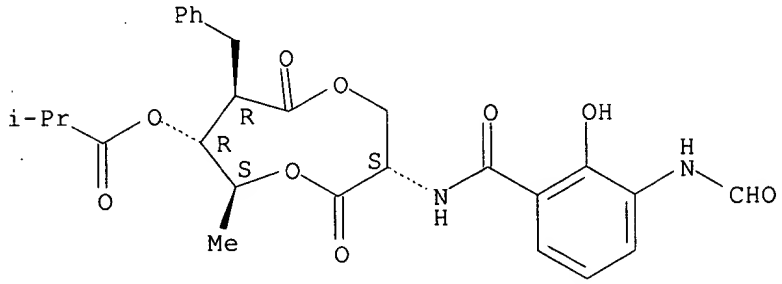
Updated Search

Absolute stereochemistry.



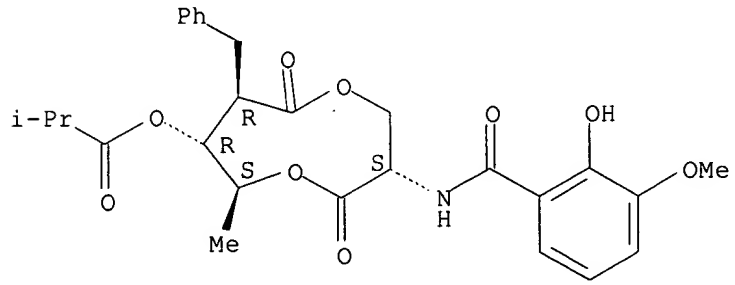
RN 215798-04-2 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[3-(formylamino)-2-hydroxybenzoyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 215798-05-3 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[(2-hydroxy-3-methoxybenzoyl)amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 234112-77-7 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,9R)-3-amino-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)

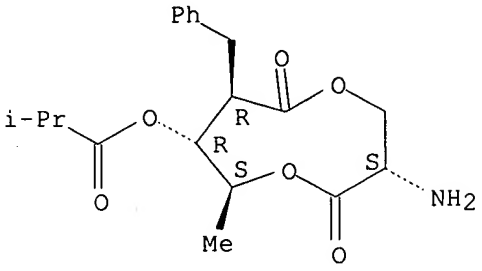
CM 1

Updated Search

09601655

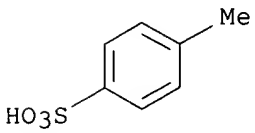
CRN 210300-07-5
CMF C19 H25 N O6

Absolute stereochemistry.



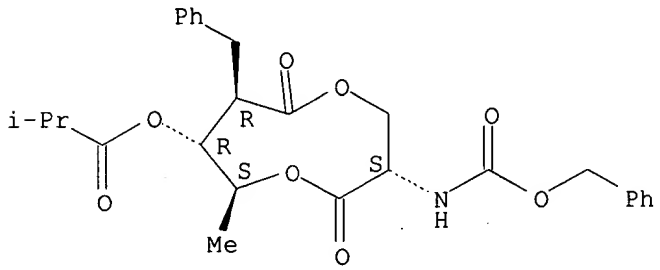
CM 2

CRN 104-15-4
CMF C7 H8 O3 S



RN 234112-78-8 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-6-methyl-4,9-dioxo-3-[[(phenylmethoxy)carbonyl]amino]-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

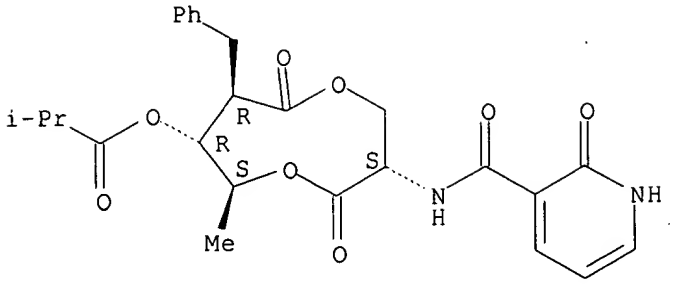


RN 234112-79-9 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(1,2-dihydro-2-oxo-3-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

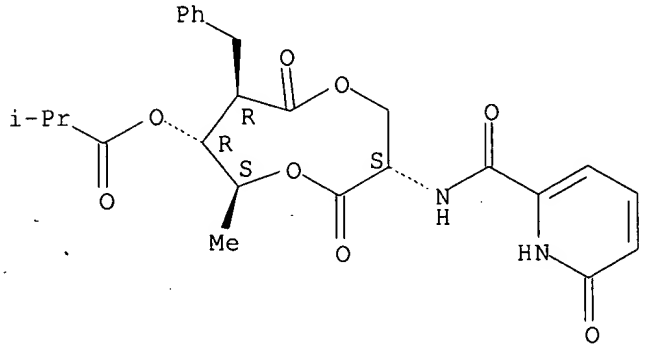
Updated Search

09601655



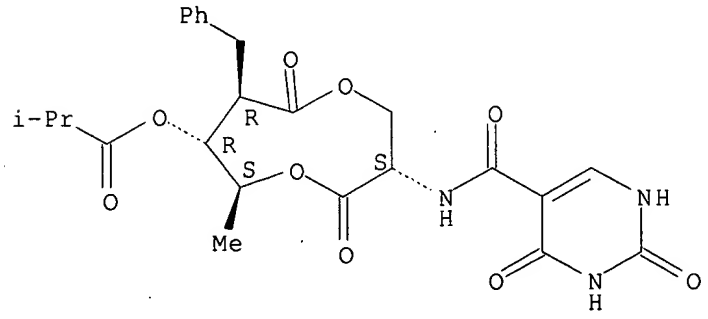
RN 234112-80-2 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(1,6-dihydro-6-oxo-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234112-81-3 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-6-methyl-4,9-dioxo-8-(phenylmethyl)-3-[[(1,2,3,4-tetrahydro-2,4-dioxo-5-pyrimidinyl)carbonyl]amino]-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

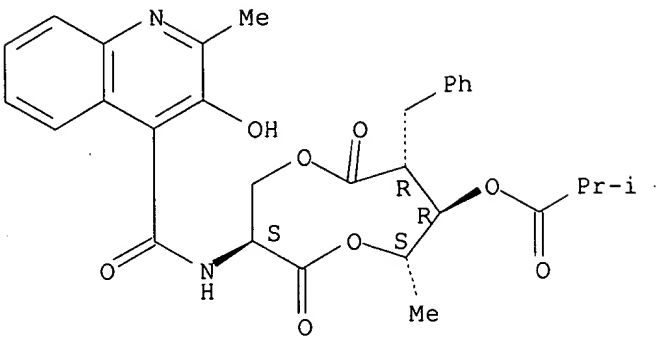


RN 234112-82-4 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-2-methyl-4-quinolinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Updated Search

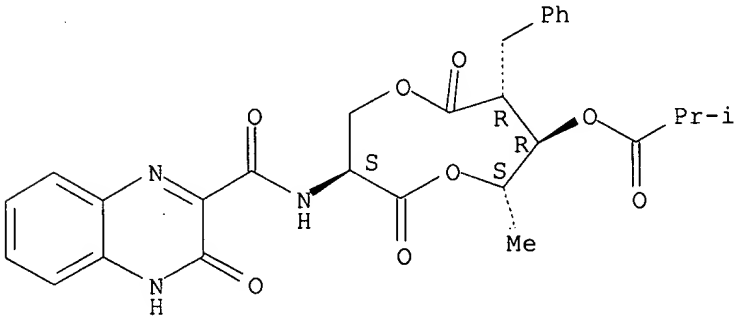
09601655

Absolute stereochemistry.



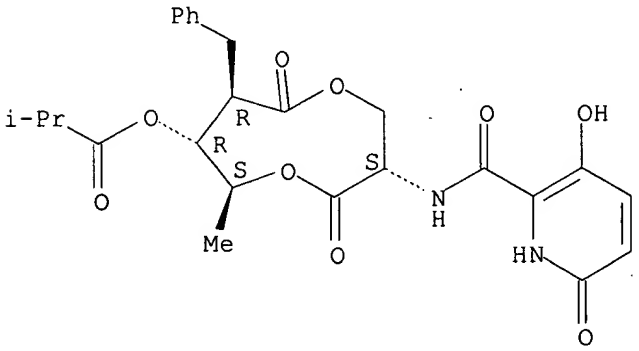
RN 234112-83-5 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3,4-dihydro-3-oxo-2-quinoxalinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234112-84-6 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(1,6-dihydro-3-hydroxy-6-oxo-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



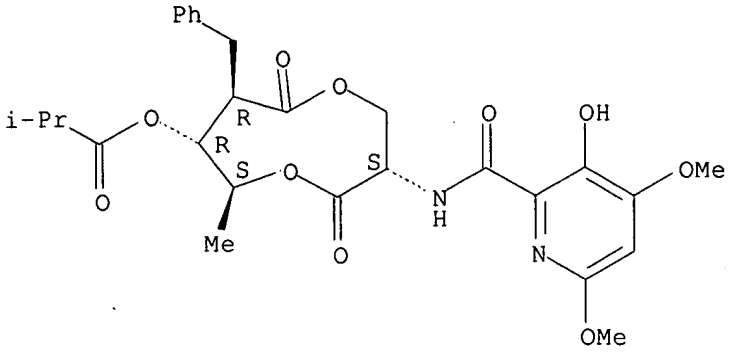
RN 234112-87-9 HCAPLUS

Updated Search

09601655

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4,6-dimethoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

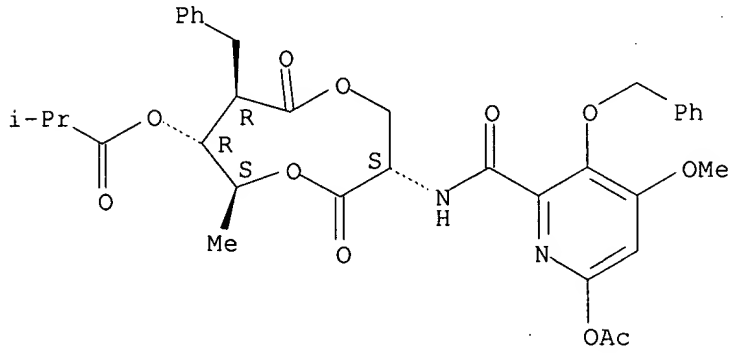
Absolute stereochemistry.



RN 234112-91-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[6-(acetyloxy)-4-methoxy-3-(phenylmethoxy)-2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

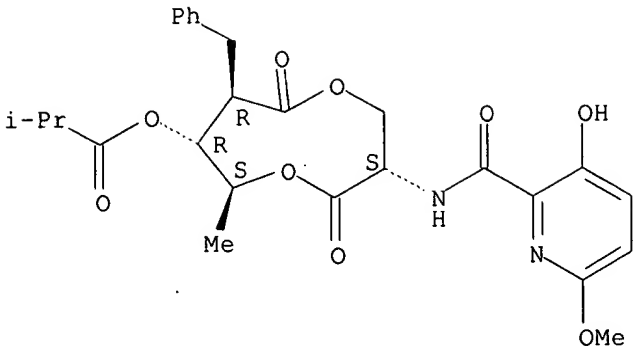


RN 234112-92-6 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-6-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

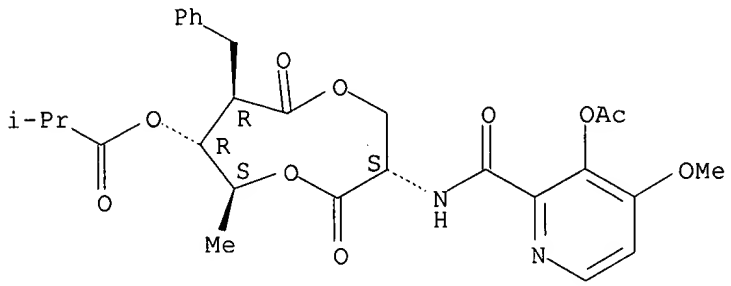
Absolute stereochemistry.

Updated Search



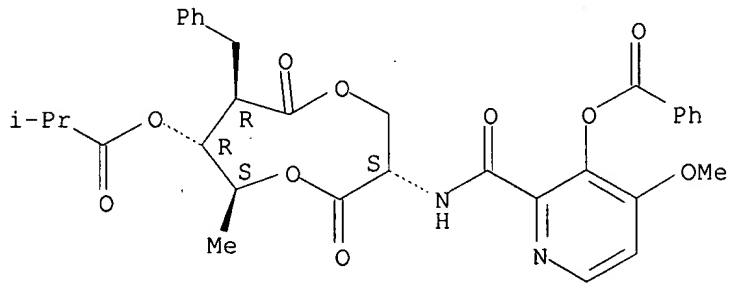
RN 234112-93-7 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[3-(acetyloxy)-4-methoxy-2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234112-94-8 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[3-(benzoyloxy)-4-methoxy-2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

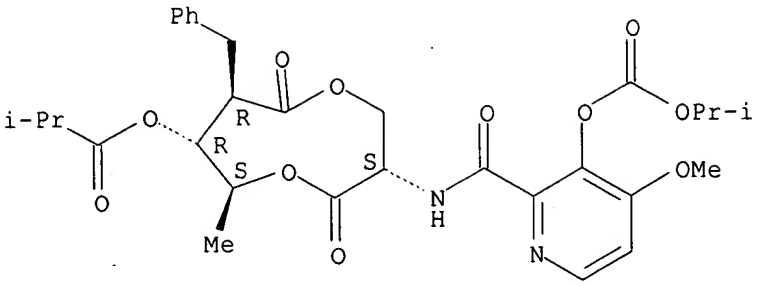
Absolute stereochemistry.



RN 234112-95-9 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[4-methoxy-3-[[(1-methylethoxy)carbonyl]oxy]-2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

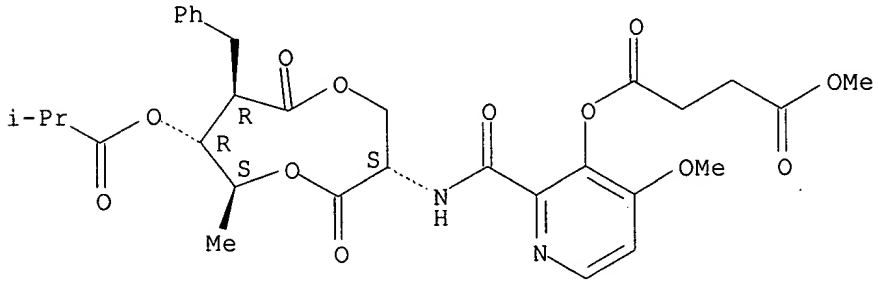
Absolute stereochemistry.

Updated Search



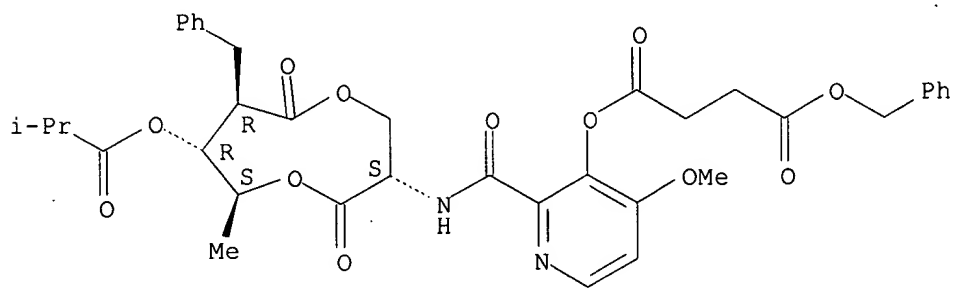
RN 234112-96-0 HCAPLUS
CN Butanedioic acid, 4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234112-97-1 HCAPLUS
CN Butanedioic acid, 4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl phenylmethyl ester (9CI) (CA INDEX NAME)

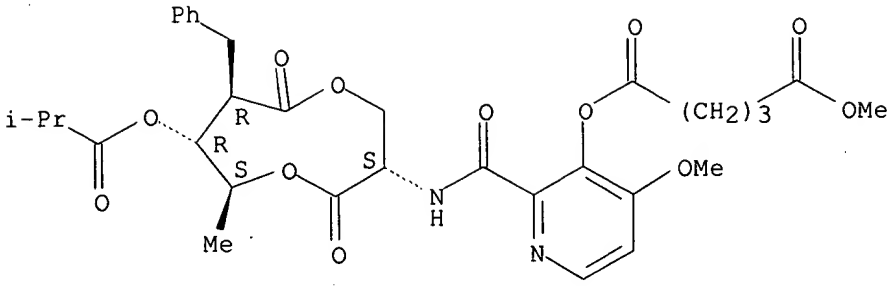
Absolute stereochemistry.



RN 234112-98-2 HCAPLUS
CN Pentanedioic acid, 4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl methyl ester (9CI) (CA INDEX NAME)

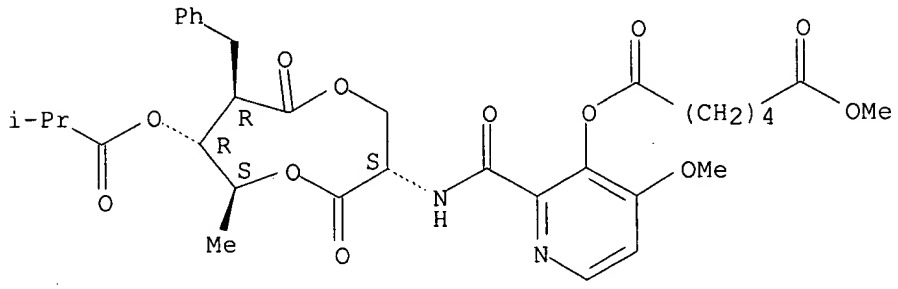
Absolute stereochemistry.

Updated Search



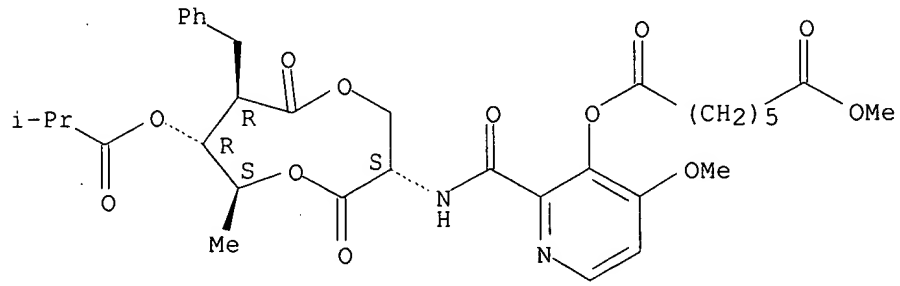
RN 234112-99-3 HCAPLUS
CN Hexanedioic acid, 4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234113-00-9 HCAPLUS
CN Heptanedioic acid, 4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl methyl ester (9CI) (CA INDEX NAME)

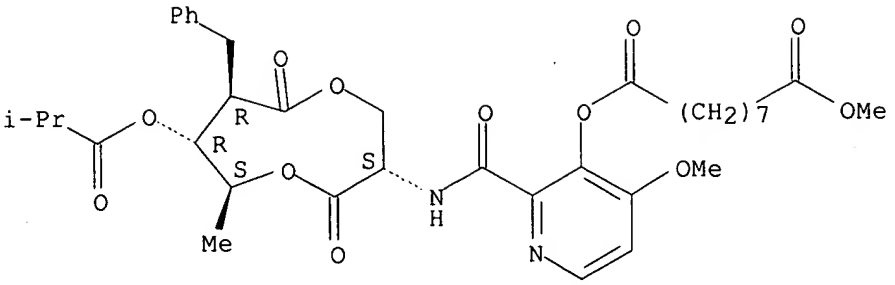
Absolute stereochemistry.



RN 234113-01-0 HCAPLUS
CN Nonanedioic acid, 4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl methyl ester (9CI) (CA INDEX NAME)

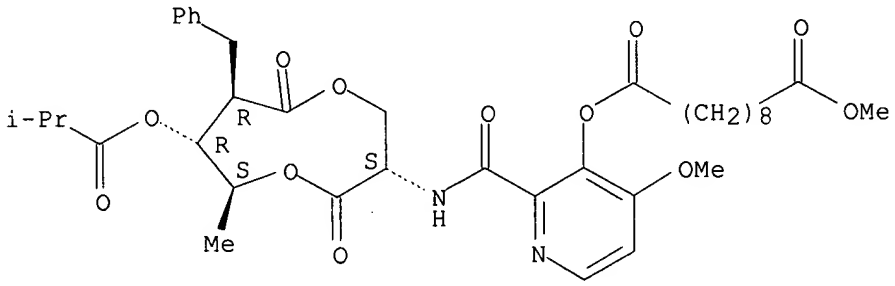
Absolute stereochemistry.

Updated Search



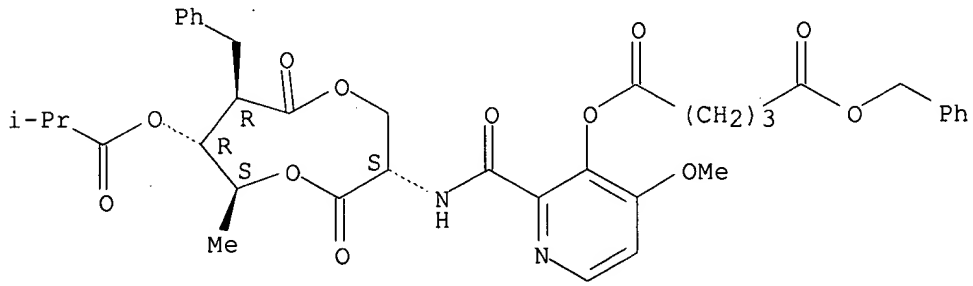
RN 234113-02-1 HCAPLUS
CN Decanedioic acid, 4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234113-03-2 HCAPLUS
CN Pentanedioic acid, 4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

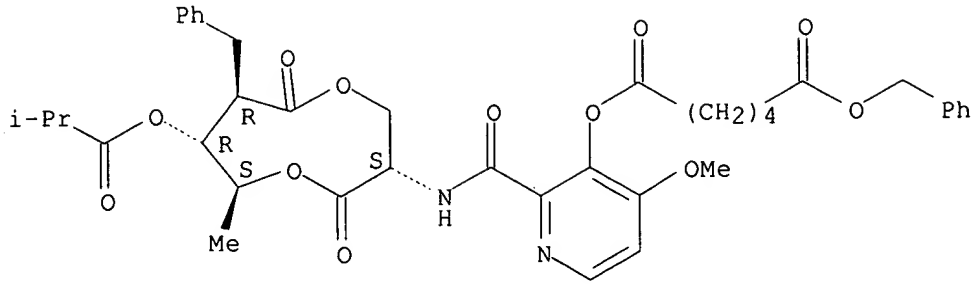


RN 234113-04-3 HCAPLUS
CN Hexanedioic acid, 4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

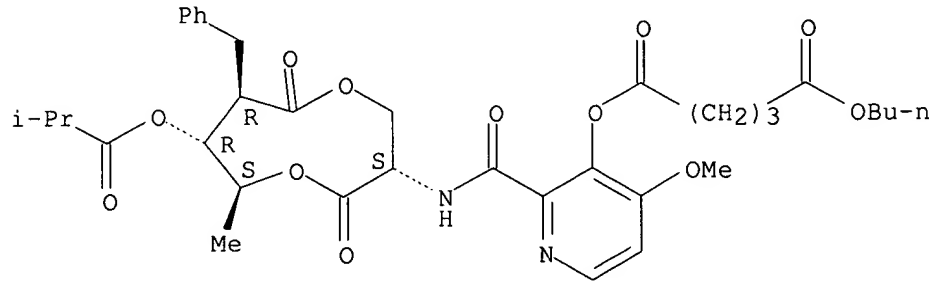
Updated Search

09601655



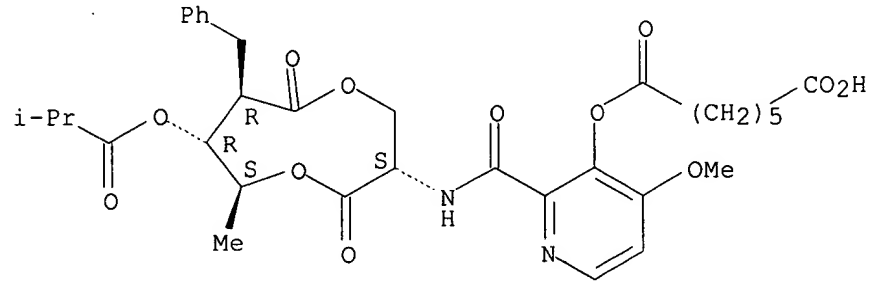
RN 234113-07-6 HCAPLUS
CN Pentanedioic acid, butyl 4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234113-08-7 HCAPLUS
CN Heptanedioic acid, mono[4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl] ester (9CI) (CA INDEX NAME)

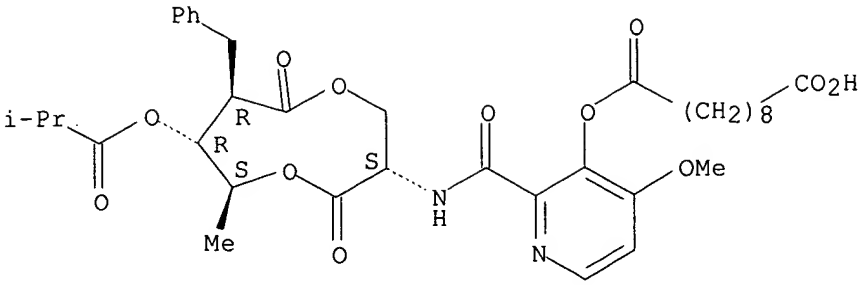
Absolute stereochemistry.



RN 234113-09-8 HCAPLUS
CN Decanedioic acid, mono[4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl] ester (9CI) (CA INDEX NAME)

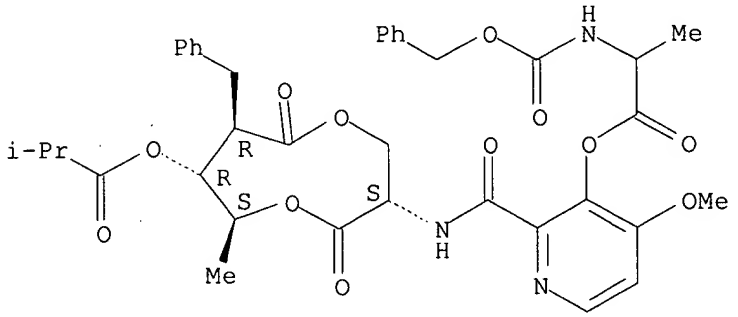
Absolute stereochemistry.

Updated Search



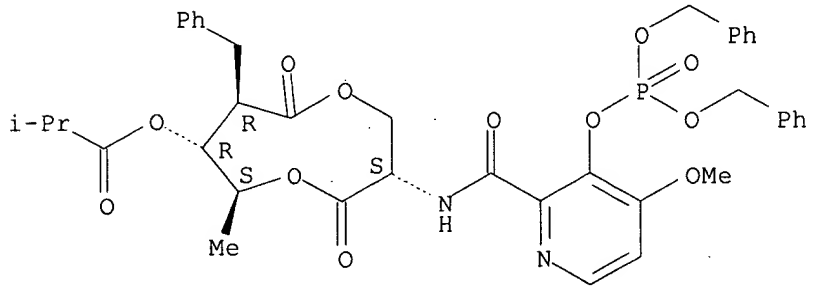
RN 234113-10-1 HCAPLUS
CN Alanine, N-[(phenylmethoxy)carbonyl]-, 4-methoxy-2-[[[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-1-oxopropoxy)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]amino]carbonyl]-3-pyridinyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234113-11-2 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[3-[[bis(phenylmethoxy)phosphinyl]oxy]-4-methoxy-2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

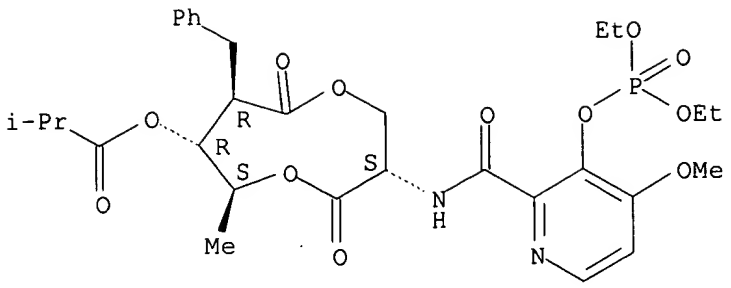
Absolute stereochemistry.



RN 234113-12-3 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[3-[(diethoxyphosphinyl)oxy]-4-methoxy-2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

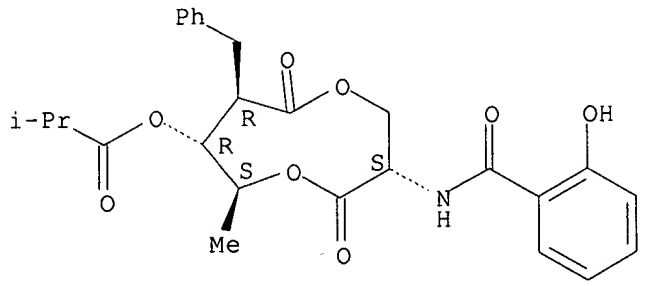
Absolute stereochemistry.

Updated Search



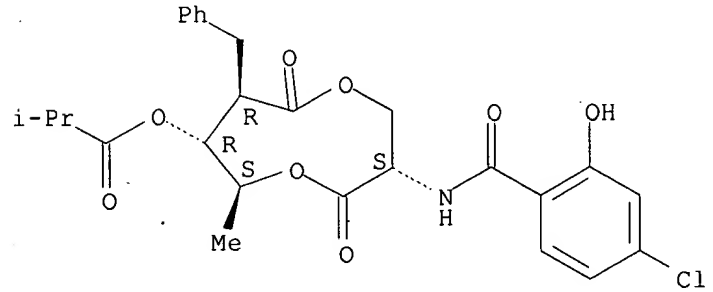
RN 234113-13-4 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[(2-hydroxybenzoyl)amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234113-18-9 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[(4-chloro-2-hydroxybenzoyl)amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

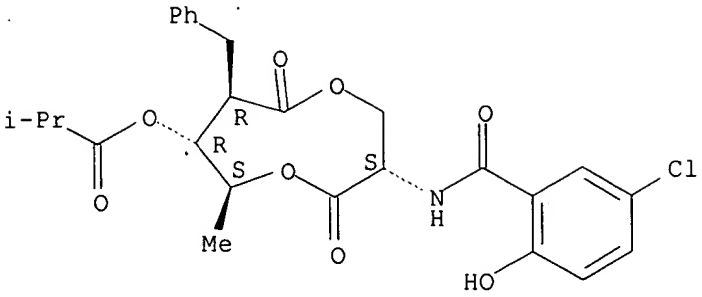
Absolute stereochemistry.



RN 234113-19-0 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[(5-chloro-2-hydroxybenzoyl)amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

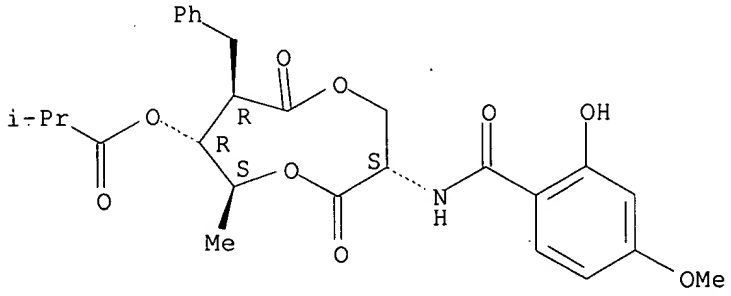
Absolute stereochemistry.

Updated Search



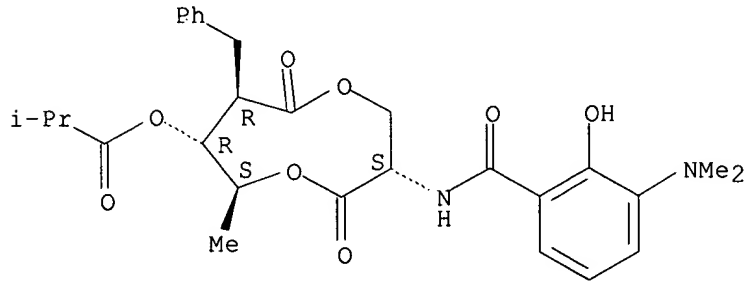
RN 234113-20-3 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[(2-hydroxy-4-methoxybenzoyl)amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234113-22-5 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[3-(dimethylamino)-2-hydroxybenzoyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

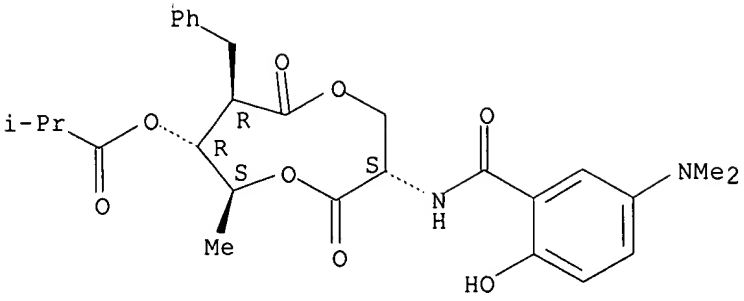
Absolute stereochemistry.



RN 234113-23-6 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[5-(dimethylamino)-2-hydroxybenzoyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

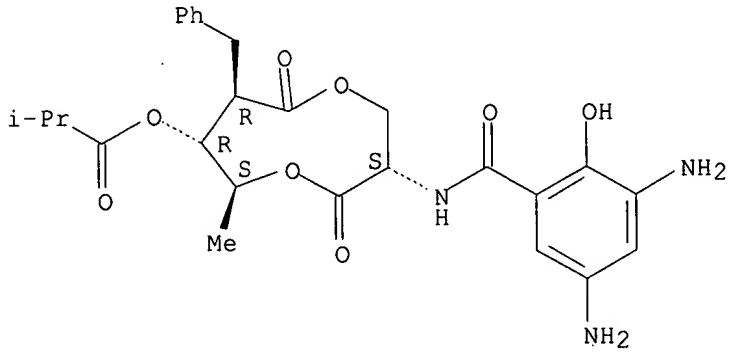
Absolute stereochemistry.

Updated Search



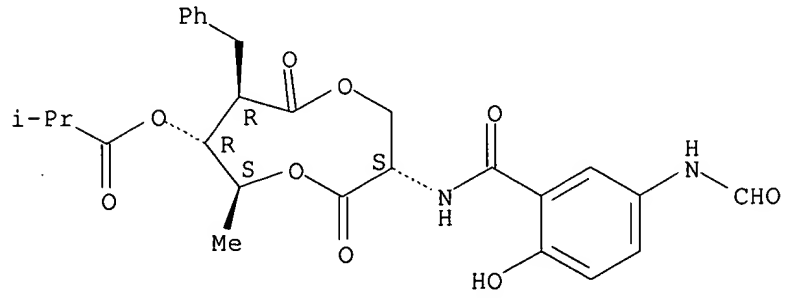
RN 234113-24-7 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[(3,5-diamino-2-hydroxybenzoyl)amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 234113-25-8 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[5-(formylamino)-2-hydroxybenzoyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

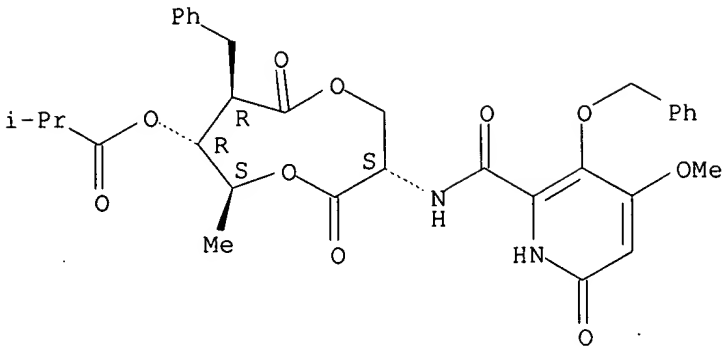


RN 234113-30-5 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[1,6-dihydro-4-methoxy-6-oxo-3-(phenylmethoxy)-2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Updated Search

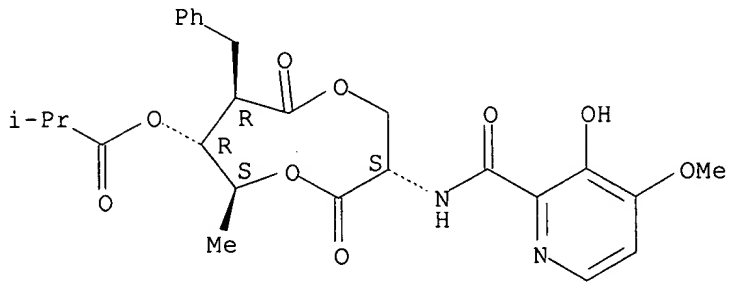
09601655

Absolute stereochemistry.



IT 167173-85-5, (+)-UK-2A
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of UK-2A derivs. as antifungals)
RN 167173-85-5 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:184083 HCAPLUS
DOCUMENT NUMBER: 130:193104
TITLE: Rice blast controlling agents and wheat scab controlling agents
INVENTOR(S): Teraoka, Takeshi; Kuzuhara, Kikuko; Mikoshiba, Haruki; Matsumoto, Kuniomi; Iinuma, Katsuharu; Futamura, Takafumi; Yasutake, Tetsuya; Sakanaka, Osamu ; Mitomo, Koichi; Taniguchi, Makoto
PATENT ASSIGNEE(S): Meiji Seika Kaisha, Ltd., Japan
SOURCE: PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

Updated Search

09601655

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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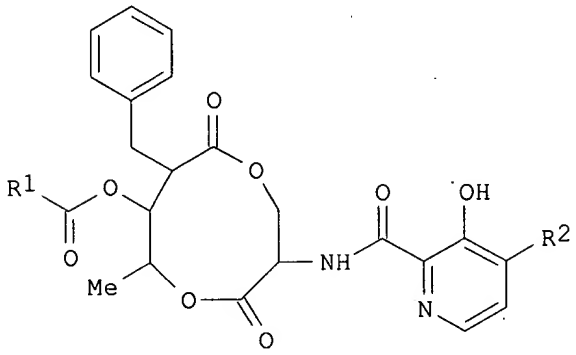
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9888878	A	19990322	AU 1998-88878	19980831
EP 1013169	A1	20000628	EP 1998-940634	19980831
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRIORITY APPLN. INFO.:			JP 1997-233658	A 19970829
			WO 1998-JP3876	W 19980831

OTHER SOURCE(S): MARPAT 130:193104
GI



I

AB These agents contain a compound represented by formula (I) in which R1 represents alkyl or alkenyl and R2 represents hydrogen or methoxy. The compound is highly effective in preventing rice blast and wheat scab and is not injurious to the plants. Specific compds. used in the examples are obtained by the method described in a publication presented earlier. Activities of I where R1 = iso-Pr and R2 = H (1), R1 = iso-Pr and R2 = OMe (2), R1 = (Z)-2-butenyl and R2 = OMe (3), R1 = iso-Bu and R2 = OMe (4), and R1 = sec-Bu and R2 = OMe (5), were demonstrated.

IT 167173-87-7 167173-88-8 220766-86-9
220766-87-0 220827-77-0
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(as rice blast controlling agents and wheat scab controlling agents)

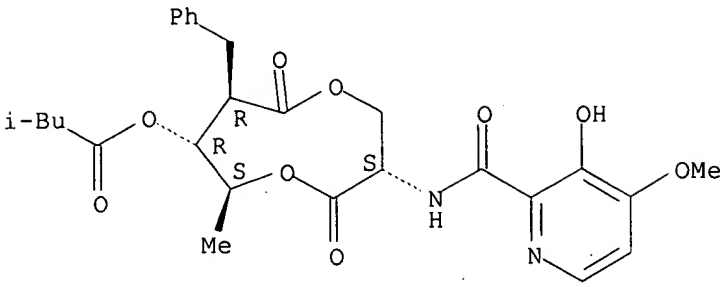
RN 167173-87-7 HCAPLUS

CN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Updated Search

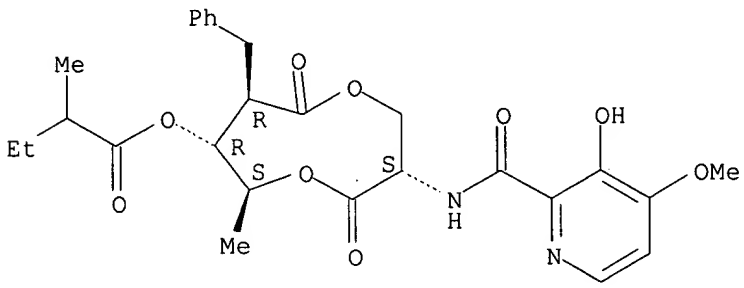
09601655

Absolute stereochemistry.

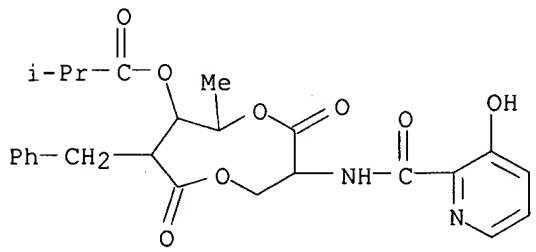


RN 167173-88-8 HCAPLUS
CN Butanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Currently available stereo shown.



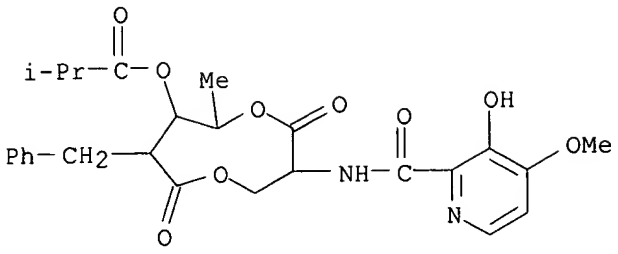
RN 220766-86-9 HCAPLUS
CN Propanoic acid, 2-methyl-, 3-[[(3-hydroxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)



RN 220766-87-0 HCAPLUS
CN Propanoic acid, 2-methyl-, 3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

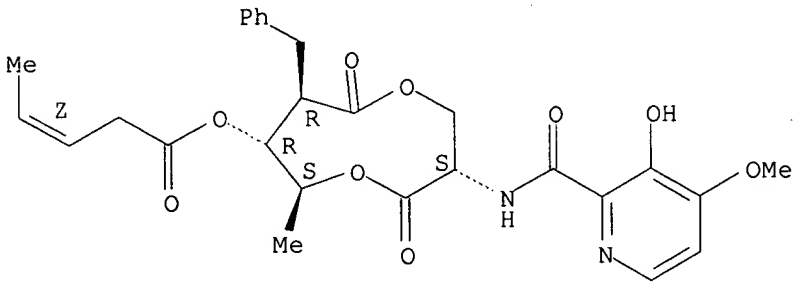
Updated Search

09601655



RN 220827-77-0 HCAPLUS
CN 3-Pentenoic acid, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, (3Z)- (9CI) (CA INDEX NAME)

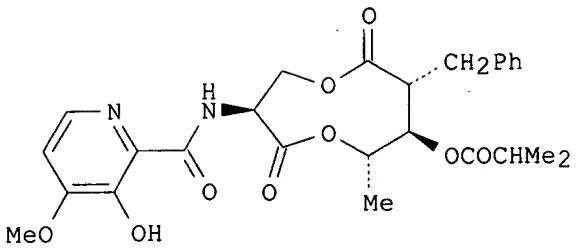
Absolute stereochemistry.
Double bond geometry as shown.



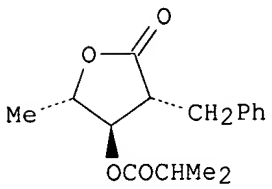
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:19692 HCAPLUS
DOCUMENT NUMBER: 130:168617
TITLE: UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02 III. Absolute configuration of an antifungal antibiotic, UK-2A, and consideration of its conformation
AUTHOR(S): Shibata, Kozo; Hanafi, Muhammad; Fujii, Jyunko; Sakanaka, Osamu; Iinuma, Katsuharu; Ueki, Masashi; Taniguchi, Makoto
CORPORATE SOURCE: Faculty of Science, Osaka City University, Osaka, 558-8585, Japan
SOURCE: Journal of Antibiotics (1998), 51(12), 1113-1116
CODEN: JANTAJ; ISSN: 0021-8820
PUBLISHER: Japan Antibiotics Research Association
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

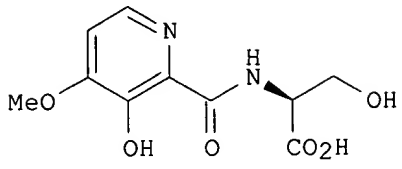
Updated Search



I



II



III

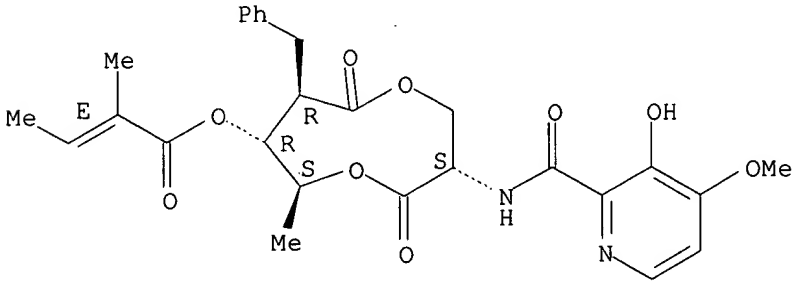
AB The absolute configuration of UK-2A (I) was determined by the elucidation of the absolute configurations of butanolide II and the serine derivative III, the products of alkaline hydrolysis of I. The absolute configuration of UK-2A was found to be (+)-(2R,3R,4S,7S).

IT 167173-86-6, UK 2B 167173-87-7, UK 2C
167173-88-8, UK 2D
RL: MSC (Miscellaneous)
(determination of the absolute configuration of UK-2A, an antifungal antibiotic)

RN 167173-86-6 HCAPLUS

CN 2-Butenoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, (2E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

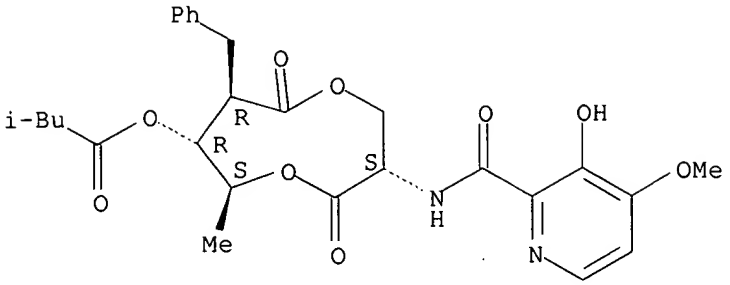


RN 167173-87-7 HCAPLUS

CN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

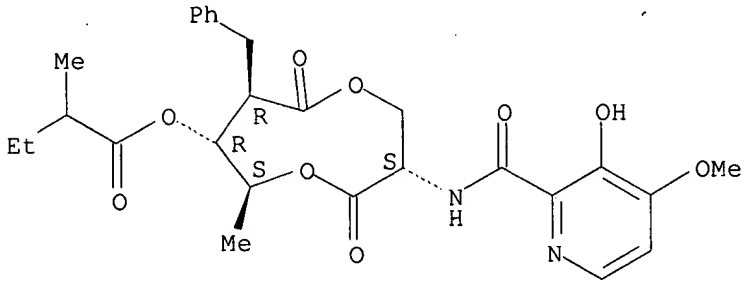
Absolute stereochemistry.

Updated Search



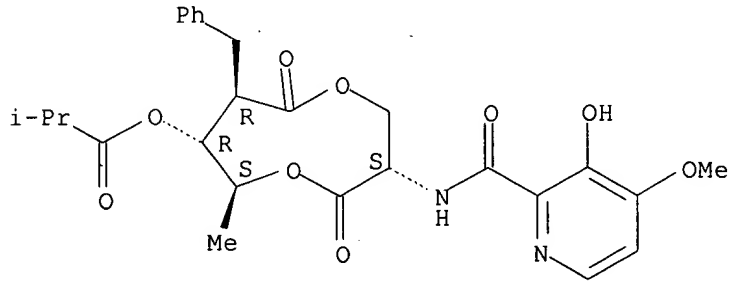
RN 167173-88-8 HCAPLUS
CN Butanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Currently available stereo shown.



IT 167173-85-5
RL: PRP (Properties)
(determination of the absolute configuration of UK-2A, an antifungal antibiotic)
RN 167173-85-5 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Updated Search

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=> d his

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     FILE 'REGISTRY' ENTERED AT 14:26:53 ON 21 MAR 2007
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L2          14 S L1
L3         277 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 14:39:46 ON 21 MAR 2007
L4          25 S L3
L5           4 S L4 AND SAKANAKA, O?/AU

=> s l4 not l5
L6          21 L4 NOT L5

=> s l6 and mitomo, k?/au
            43 MITOMO, K?/AU
L7           0 L6 AND MITOMO, K?/AU

=> s l6 and tamura, t?/au
          5413 TAMURA, T?/AU
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             0 MURAJ, Y?/AU
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=> s l6 and iinuma, k?/au
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           391 TERAOKA, T?/AU
L11          0 L6 AND TERAOKA, T?/AU

=> s l6 and kuzuhara, k?/au
            71 KUZUHARA, K?/AU
L12          0 L6 AND KUZUHARA, K?/AU

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L13          0 L6 AND MIKOSHIBA, H?/AU

=> s l6 and taniguchi, m?/au
          4077 TANIGUCHI, M?/AU
L14         12 L6 AND TANIGUCHI, M?/AU

=> d l14, ibib abs hitstr, 1-12

L14  ANSWER 1 OF 12  HCAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2006:453925  HCAPLUS
DOCUMENT NUMBER:          145:76021
TITLE:                    Structure-activity relationship studies on UK-2A, a
                          novel antifungal antibiotic from Streptomyces sp.
                          517-02. Part 5: Roles of the 9-membered dilactone-ring
                          moiety in respiratory inhibition
AUTHOR(S):                Usuki, Yoshinosuke; Adachi, Noriko; Fujita, Ken-Ichi;
                          Ichimura, Akio; Iio, Hideo; Taniguchi, Makoto
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Updated Search

09601655

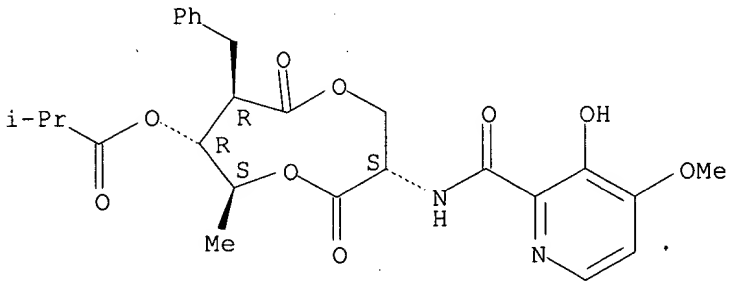
CORPORATE SOURCE: Department of Material Science, Graduate School of Science, Osaka City University, 3-3-138 Sugimoto, Sumiyoshi, Osaka, 558-8585, Japan
SOURCE: Bioorganic & Medicinal Chemistry Letters (2006), 16(12), 3319-3322
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 145:76021

AB Several open-chained analogs of UK-2A, a novel antifungal antibiotic isolated from Streptomyces sp. 517-02, were prepared for structure-activity studies. The in vitro antifungal activities of these compds. against Rhodotorula mucilaginosa IFO 0001 and the inhibition of uncoupler-stimulated respiration in bovine heart submitochondrial particles (SMP) were evaluated. Oxidative potentials were measured by cyclic voltammetry. An analog prepared from dihexyl -glutamate showed comparable inhibitory activity as UK-2A.

IT 167173-85-5DP, UK-2A, analogs
RL: DMA (Drug mechanism of action); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(SAR of and preparation antifungal UK-2A analogs: 9-membered dilactone-ring moiety role in respiratory inhibition)

RN 167173-85-5 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:937345 HCAPLUS
DOCUMENT NUMBER: 142:348094
TITLE: UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02 VI (3). Role of substituents on dilactone ring of UK-2A and antimycin A3 against generation of reactive oxygen species in porcine renal proximal tubule LLC-PK1 cells.
AUTHOR(S): Fujita, Ken-Ichi; Kiso, Tetsuo; Usuki, Yoshinosuke; Tanaka, Toshio; Taniguchi, Makoto
CORPORATE SOURCE: Graduate School of Science, Osaka City University, Osaka, 558-8585, Japan
SOURCE: Journal of Antibiotics (2004), 57(10), 687-690

Updated Search

09601655

CODEN: JANTAJ; ISSN: 0021-8820
PUBLISHER: Japan Antibiotics Research Association
DOCUMENT TYPE: Journal
LANGUAGE: English

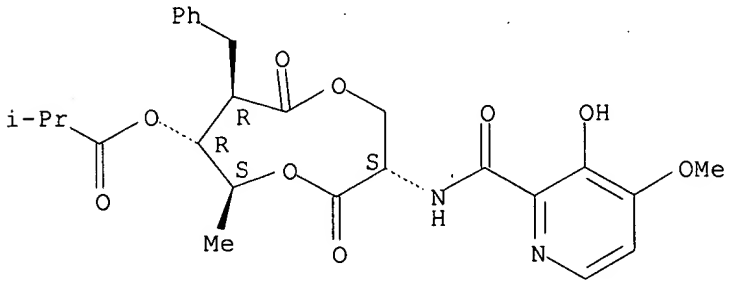
AB The role of the substituents on the dilactone of UK-2A and antimycin A3 (AA) against reactive oxygen species (ROS) generation in porcine renal proximal tubule LLC-PK1 cells was studied. Results showed that AA and its derivs. 4~7 stimulated ROS generation. They have a 3-formamidosalicylic moiety at the C7 position. The level of ROS generation induced by AA at 5 and 10 μM were the highest among the derivs. tested and 2.3-fold of the control. On the other hand, UK-2A and its derivs. 1~3, epi-1 and epi-2 did not greatly stimulate ROS generation. These results indicate that a 3-formamidosalicylic moiety contributes to ROS generation. In addition, the level of ROS generation among the derivs. correlated with the intensity of respiratory inhibition. The LLC-PK1 cells treated with the derivs. tested in this study showed morphologies similar to necrotic cell death under microscopic observation. However, it has been reported that AA induces the activation of caspases and DNA fragmentation, which are typical apoptotic responses.

IT 167173-85-5, UK-2A 167173-87-7 215798-04-2
464157-53-7 464157-56-0
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); PRP (Properties); BIOL (Biological study)
(UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp.)

RN 167173-85-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



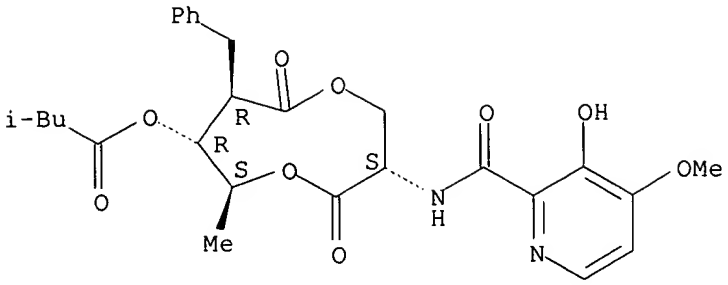
RN 167173-87-7 HCAPLUS

CN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

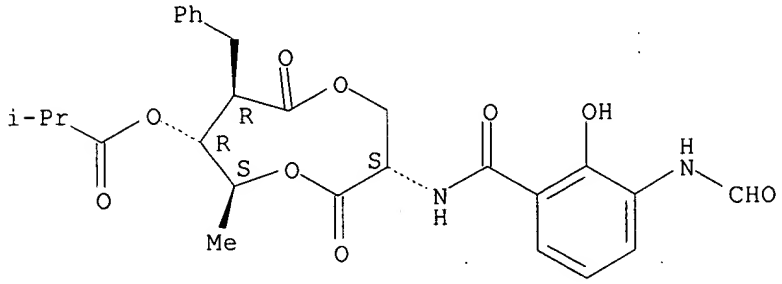
Updated Search

09601655



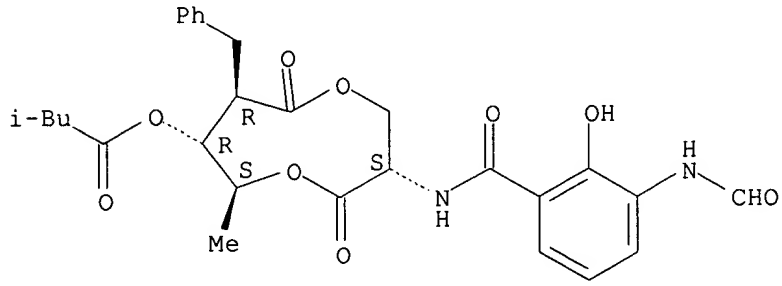
RN 215798-04-2 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[3-(formylamino)-2-hydroxybenzoyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 464157-53-7 HCAPLUS
CN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[3-(formylamino)-2-hydroxybenzoyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

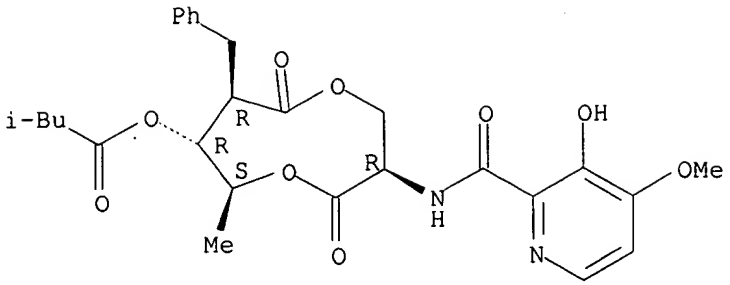


RN 464157-56-0 HCAPLUS
CN Butanoic acid, 3-methyl-, (3R,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

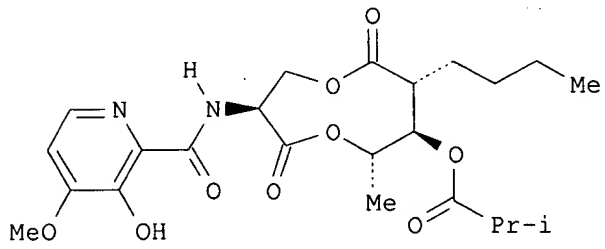
Updated Search

09601655



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:508203 HCAPLUS
DOCUMENT NUMBER: 137:279002
TITLE: UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02 VI (2). Structure-activity relationships of UK-2A
AUTHOR(S): Usuki, Yoshinosuke; Goto, Kimihiko; Kiso, Tetsuo; Tani, Kazunori; Ping, Xu; Fujita, Ken-Ichi; Iio, Hideo; Taniguchi, Makoto
CORPORATE SOURCE: Graduate School of Science, Osaka City University, Osaka, 558-8585, Japan
SOURCE: Journal of Antibiotics (2002), 55(6), 607-610
CODEN: JANTAJ; ISSN: 0021-8820
PUBLISHER: Japan Antibiotics Research Association
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB UK-2A and antimycin A3 analogs, e.g. I, were tested for their respiratory inhibition in bovine heart SMP and their cytotoxic activity was measured against porcine renal proximal tubule cells. The structure activity relationship was examined as well.

IT 167173-85-5, UK-2A 167173-87-7 215798-04-2
464157-53-7 464157-56-0
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(respiratory inhibition, cytotoxicity, and structure-activity relationships of UK-2A and antimycin A3 synthetic hybrids)

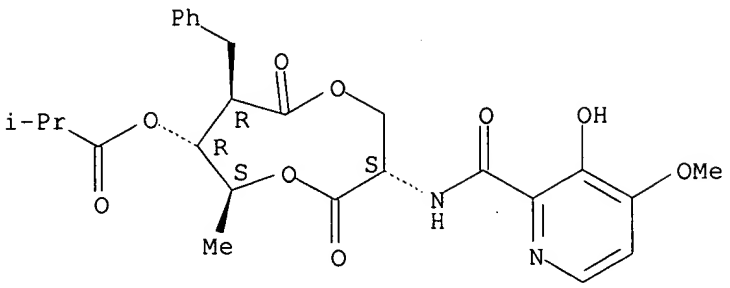
RN 167173-85-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Updated Search

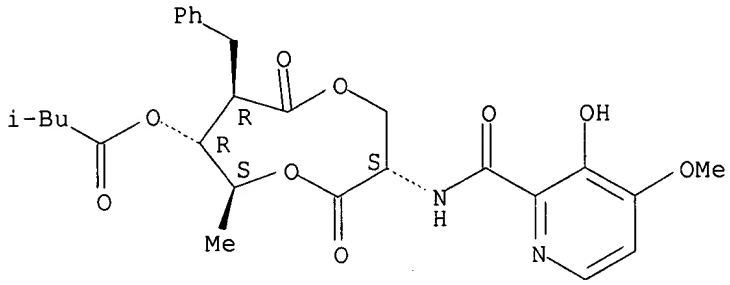
09601655

Absolute stereochemistry. Rotation (+).



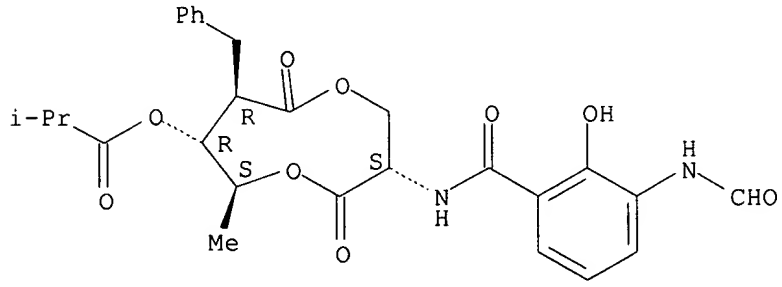
RN 167173-87-7 HCAPLUS
CN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 215798-04-2 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[3-(formylamino)-2-hydroxybenzoyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 464157-53-7 HCAPLUS
CN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[3-(formylamino)-2-hydroxybenzoyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Updated Search

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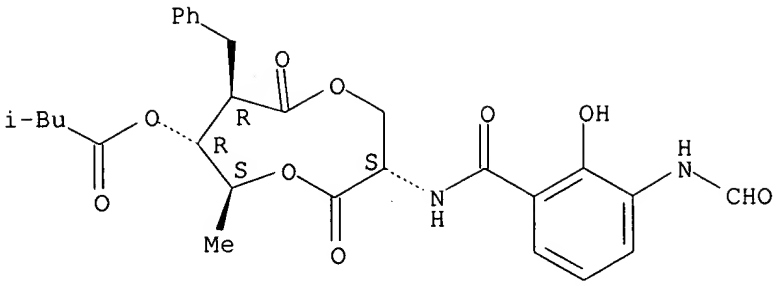
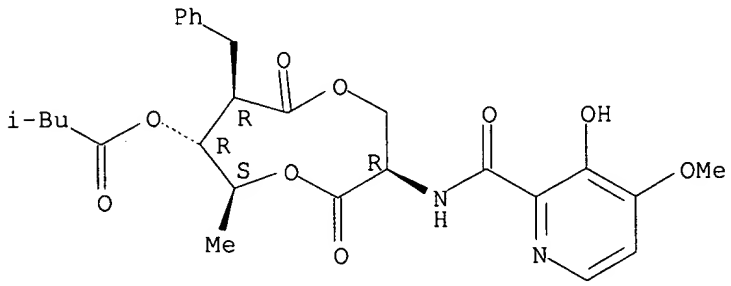


RN 464157-56-0 HCAPLUS
CN Butanoic acid, 3-methyl-, (3R,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

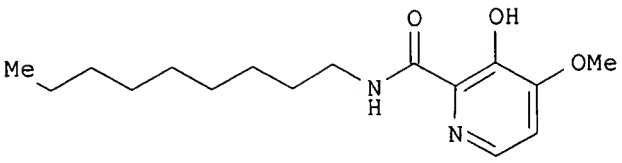


REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:262139 HCAPLUS
DOCUMENT NUMBER: 137:30441
TITLE: UK-2A, B, C, and D, novel antifungal antibiotics from Streptomyces sp. 517-02: VII. Membrane injury induced by C9-UK-2A, a derivative of UK-2A, in Rhodotorula mucilaginosa IFO 0001
AUTHOR(S): Tani, Kazunori; Usuki, Yoshinosuke; Motoba, Kazuhiko; Fujita, Ken-Ichi; Taniguchi, Makoto
CORPORATE SOURCE: Graduate School of Science, Osaka City University, Osaka, 558-8585, Japan
SOURCE: Journal of Antibiotics (2002), 55(3), 315-321
CODEN: JANTAJ; ISSN: 0021-8820
PUBLISHER: Japan Antibiotics Research Association
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

Updated Search

09601655



I

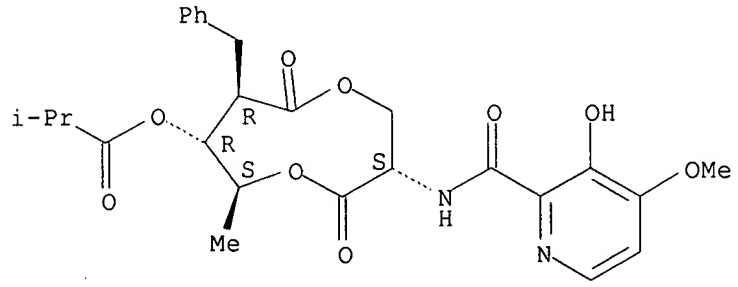
AB UK-2A is a potent antifungal antibiotic and its structure is highly similar to that of antimycin A3 (AA). UK-2A and AA inhibit mitochondrial electron transport at complex III. However, the antifungal activities of UK-2A and AA disappear after 48-h treatment. In an attempt to improve the duration of the antifungal activity of UK-2A, several UK-2A derivs. were prepared by substituting its nine-membered dilactone ring with an n-alkyl or an isoprenyl moiety. Among all the derivs. tested, C9-UK-2A (I) and C10-UK-2A showed the most potent and durable antifungal activities against a strict aerobic yeast, Rhodotorula mucilaginosa IFO 0001. I, in particular, continued to demonstrate its broad-spectrum antifungal activity after 120-h treatment. Therefore, we focused on I to further examine its mode of action against the yeast. Interestingly, I did not inhibit cellular respiration of the cells even at concns. greater than 100 μg/mL. I gradually induced the efflux of potassium ions from the cells. Moreover, I gradually induced the release of glucose from glucose-encapsulating liposomes. The patterns of efflux and release induced by I were not as rapid as those seen with amphotericin B. These results suggest a membrane injury caused by I in R. mucilaginosa IFO 0001.

IT 167173-85-5, UK-2A
RL: PAC (Pharmacological activity); BIOL (Biological study)
(activity of UK-2A and derivs. against Rhodotorula mucilaginosa)

RN 167173-85-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

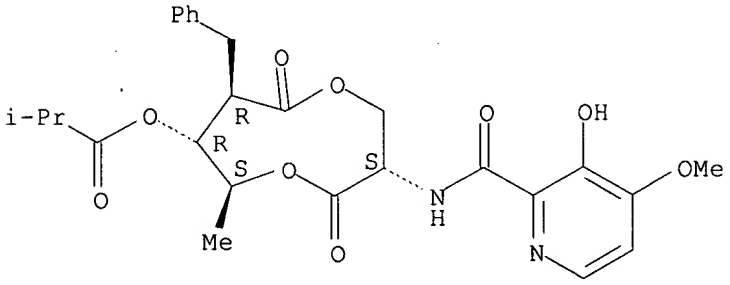
L14 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:557166 HCAPLUS
DOCUMENT NUMBER: 135:300904
TITLE: UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02. VI (1). Structure-activity relationships of UK-2A
AUTHOR(S): Usuki, Yoshinosuke; Tani, Kazunori; Fujita, Ken-Ichi;

Updated Search

09601655

Taniguchi, Makoto
CORPORATE SOURCE: Graduate School of Science, Osaka City University, Osaka, 558-8585, Japan
SOURCE: Journal of Antibiotics (2001), 54(7), 600-602
CODEN: JANTAJ; ISSN: 0021-8820
PUBLISHER: Japan Antibiotics Research Association
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The synthesis of UK-2A analogs, where the nine-membered dilactone residue was replaced by several alkyl or isoprenyl moieties, and their biol. effects were studied. All the tested compds., such as UK-2A, AA, and their derivs., did not show any growth inhibitory activity against both Gram-neg. and Gram-pos. bacteria up to 100μg/mL. Salicylic acid moiety or pyridinecarboxylic acid moiety plus a hydrophobic structure is at least necessary for expression of antifungal action. The 9-membered dilactone ring moiety itself is not essential for the antimicrobial activity, and C8-alkyl group is flexible and hydrophobic that makes C8-UK-2A interact the binding domain to prevent yeasts and filamentous fungi from growing. The decrease in activity of isoprenylated UK-2A derivs. was due to a loss of flexibility, which interferes in their taking active conformations. AA had strong cytotoxicity against porcine renal proximal tubule LLC-PK1 cells and other types of cultured cells compared to UK-2A. The inhibitory of UK-2A and AA for the uncoupler stimulated respiration of bovine heart submitochondrial particles was examined C8-3MeOSA showed comparably high inhibitory activity similar to C8-AA and AA, although its antimicrobial activities were weaker than those were. The mode of action of C8-UK-2A would be different from that of UK-2A.
IT 167173-85-5, UK-2A
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02. VI (1). Structure-activity relationships of UK-2A)
RN 167173-85-5 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:574605 HCAPLUS
DOCUMENT NUMBER: 131:297409
TITLE: UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02 V. Inhibition mechanism of

Updated Search

09601655

bovine heart mitochondrial cytochrome bc1 by the novel antibiotic UK-2A

AUTHOR(S): Machida, Kiyotaka; Takimoto, Hiroaki; Miyoshi, Hideto; Taniguchi, Makoto

CORPORATE SOURCE: Department of Biology, Graduate School of Science, Osaka City University, Osaka, 558-8585, Japan

SOURCE: Journal of Antibiotics (1999), 52(8), 748-753
CODEN: JANTAJ; ISSN: 0021-8820

PUBLISHER: Japan Antibiotics Research Association

DOCUMENT TYPE: Journal

LANGUAGE: English

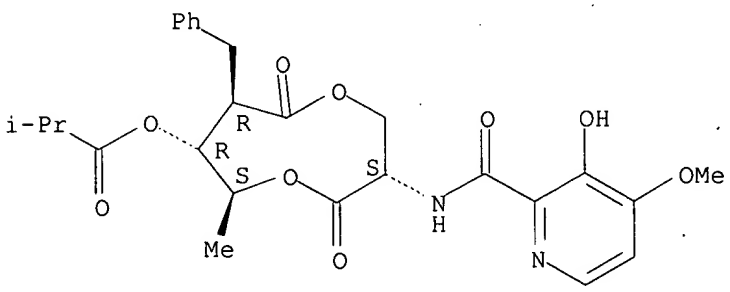
AB UK-2A is a potent antifungal antibiotic isolated from Streptomyces sp. 517-02 and its structure is highly similar to that of antimycin A. The authors investigated the inhibition mechanism of bovine heart mitochondrial cytochrome bc1 complex by the UK-2A using antimycin A and myxothiazol as the reference inhibitors of ubiquinol oxidation (Qo) and ubiquinone reduction (Qi) sites, resp. The inhibitory potency of UK-2A was about 3-fold less than antimycin A. On the basis of the effects of UK-2A on the reduction kinetics of b and c1 hemes, this compound appeared to be an inhibitor of the Qi site. However, since spectral changes of dithionite-reduced cytochrome b induced by UK-2A binding differed from that of antimycin A, the precise binding manner of UK-2A to the enzyme is not identical to that of antimycin A. It could be concluded that antimycin A binding to cytochrome b is primarily decided by structural specificity of the salicylic acid moiety.

IT 167173-85-5, Antibiotic UK-2A 167173-86-6, Antibiotic UK-2B 167173-87-7, Antibiotic UK-2C 167173-88-8, Antibiotic UK-2D
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(UK-2A, B, C and D as novel antifungal antibiotics from Streptomyces)

RN 167173-85-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

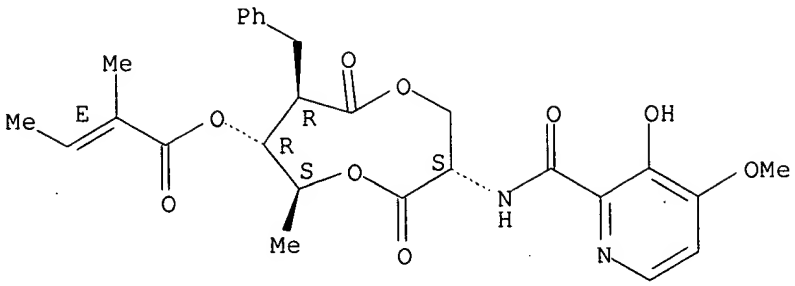


RN 167173-86-6 HCAPLUS

CN 2-Butenoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, (2E)- (9CI) (CA INDEX NAME)

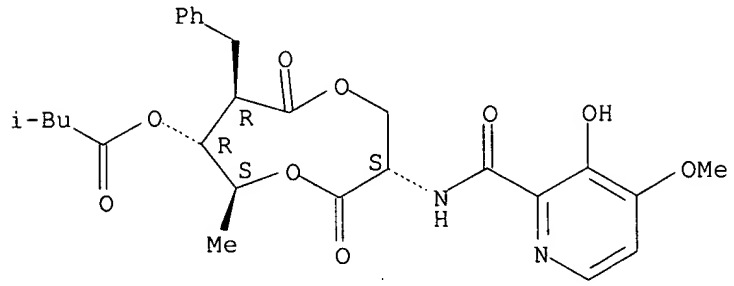
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

Updated Search



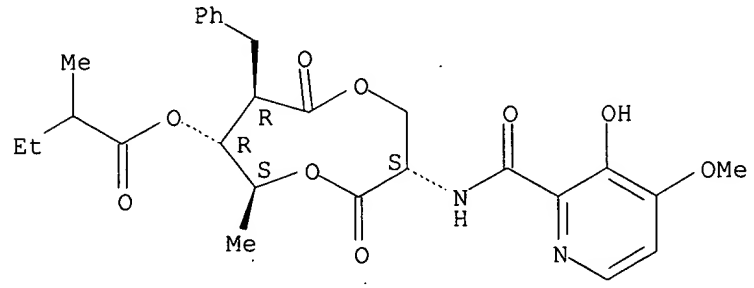
RN 167173-87-7 HCAPLUS
CN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 167173-88-8 HCAPLUS
CN Butanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Currently available stereo shown.



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:368241 HCAPLUS
DOCUMENT NUMBER: 131:125082
TITLE: UK-2A, B, C and D, novel antifungal antibiotics from

Updated Search

09601655

Streptomyces sp. 517-02: IV. Comparative studies of UK-2A with antimycin A3 on cytotoxic activity and reactive oxygen species generation in LLC-PK1 cells

AUTHOR(S): Takimoto, Hiroaki; Machida, Kiyotaka; Ueki, Masashi; Tanaka, Toshio; Taniguchi, Makoto

CORPORATE SOURCE: Department of Biology, Graduate School of Science, Osaka City University, Osaka, 558-8585, Japan

SOURCE: Journal of Antibiotics (1999), 52(5), 480-484
CODEN: JANTAJ; ISSN: 0021-8820

PUBLISHER: Japan Antibiotics Research Association

DOCUMENT TYPE: Journal

LANGUAGE: English

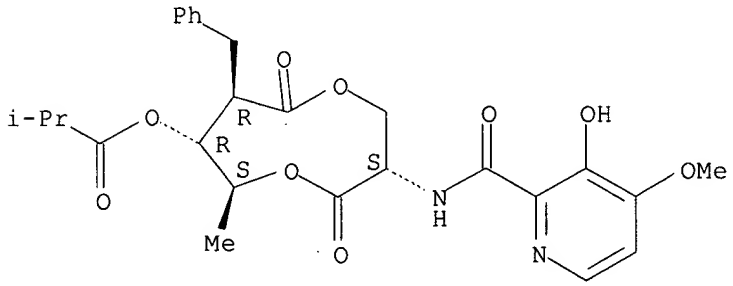
AB UK-2A, a novel antifungal antibiotic, is a structural relative of antimycin A3 (AA) and its mode of action is similar to that of AA which inhibits mitochondrial electron transport at complex III. In spite of their structural resemblance, AA had strong cytotoxicity while UK-2A had little cytotoxicity against LLC-PK1 cells as well as other types of cultured cells. When cells were treated with UK-2A or with AA the intracellular ATP content decreased significantly within 5 min in glucose-free medium to almost the same extent in both cases. Moreover, under the same conditions, UK-2A killed cells at a similar rate to AA. This suggested that UK-2A entered into the cells and, like AA, inhibited mitochondrial electron transport. On the other hand, AA stimulated reactive oxygen species (ROS) production within 5 min even at a low concentration of 1 μM whereas UK-2A did not show such an effect. The difference in the ROS-producing abilities of UK-2A and AA may account for the different cytotoxic effects of the two compds.

IT 167173-85-5, UK-2A
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(comparative studies of UK-2A with antimycin A3 on cytotoxic activity and reactive oxygen species generation in LLC-PK1 cells)

RN 167173-85-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:22846 HCAPLUS
DOCUMENT NUMBER: 128:163891

Updated Search

09601655

TITLE: The mode of action of UK-2A and UK-3A, novel antifungal antibiotics from Streptomyces sp. 517-02

AUTHOR(S): Ueki, Masashi; Taniguchi, Makoto
CORPORATE SOURCE: Dep. Biology, Fac. Sci., Osaka City Univ., Osaka, 558, Japan

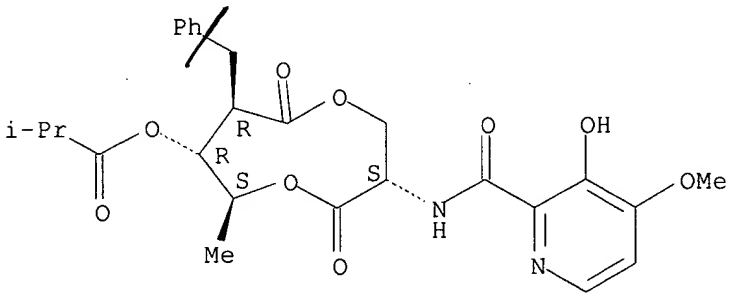
SOURCE: Journal of Antibiotics (1997), 50(12), 1052-1057
CODEN: JANTAJ; ISSN: 0021-8820
PUBLISHER: Japan Antibiotics Research Association
DOCUMENT TYPE: Journal
LANGUAGE: English

AB UK-2A and UK-3A are structural relatives of antimycins, which were isolated as antifungal antibiotics with little cytotoxicity that demonstrated inhibition of respiratory activity. They halve the cellular respiration of yeast within 4~5 min and the intracellular ATP content within 2~5 min. They inhibited the yeast mitochondrial respiration using β-hydroxybutyrate and succinate as a respiratory substrate, but no inhibition was observed using ascorbate-reduced tetra-Me p-phenylenediamine as the substrate. The site of respiratory inhibition of UK-2A and UK-3A was thought to be the cytochrome bc1 complex in the mitochondrial electron transport chain of yeast cells. They also inhibited the mitochondrial respiration of rat liver. Intact animal cells might have some system to defend themselves from the actions of UK-2A and UK-3A.

IT 167173-85-5, UK-2A 194931-82-3, Antibiotic UK-3A
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(mechanism of antifungal action of UK-2A and UK-3A)

RN 167173-85-5 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



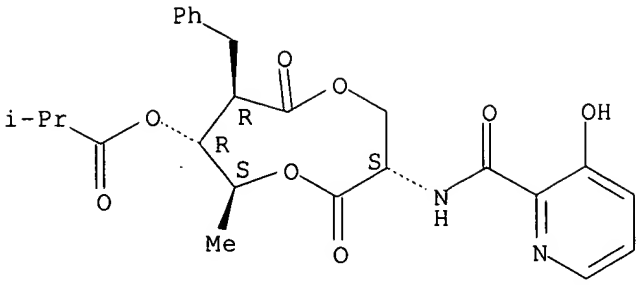
closest

RN 194931-82-3 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

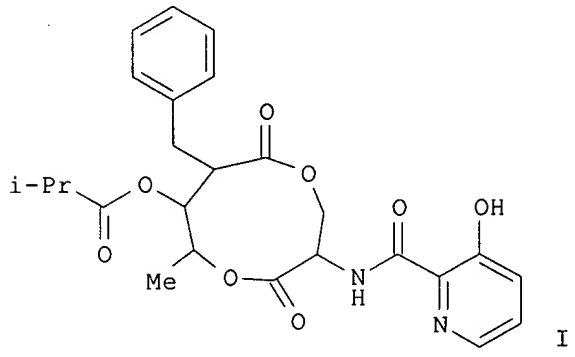
Updated Search

09601655



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:504110 HCAPLUS
DOCUMENT NUMBER: 127:217524
TITLE: UK-3A, a novel antifungal antibiotic from Streptomyces sp. 517-02: fermentation, isolation, structural elucidation and biological properties
AUTHOR(S): Ueki, Masashi; Kusumoto, Atsushi; Hanafi, Muhammad; Shibata, Kozo; Tanaka, Toshio; Taniguchi, Makoto
CORPORATE SOURCE: Faculty of Science, Osaka City University, Osaka, 558, Japan
SOURCE: Journal of Antibiotics (1997), 50(7), 551-555
CODEN: JANTAJ; ISSN: 0021-8820
PUBLISHER: Japan Antibiotics Research Association
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

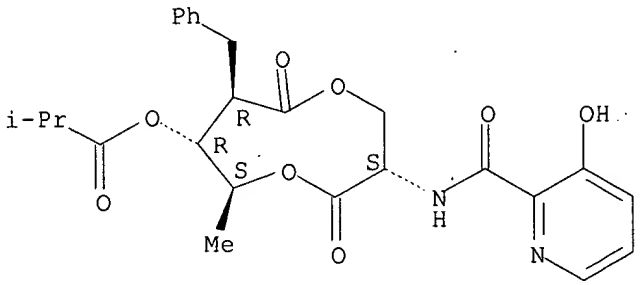
AB A novel antifungal antibiotic, UK-3A (I), was obtained from the mycelial cake of Streptomyces sp. 517-02. I was very similar in structure to UK-2A, a structural relative of antimycin A. The antifungal spectrum of I was relatively broad (MICs for yeasts and filamentous fungi: 1.56.apprx.6.25 and 0.39.apprx.1.56 μg/mL, resp.). The cytotoxic activity of I was weak (IC50: 18.apprx.100 μg/mL).

IT 194931-82-3P, Antibiotic UK 3A
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BPN (Biosynthetic preparation); BSU (Biological study,

Updated Search

unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(UK-3A is a novel antifungal antibiotic from Streptomyces)
RN 194931-82-3 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

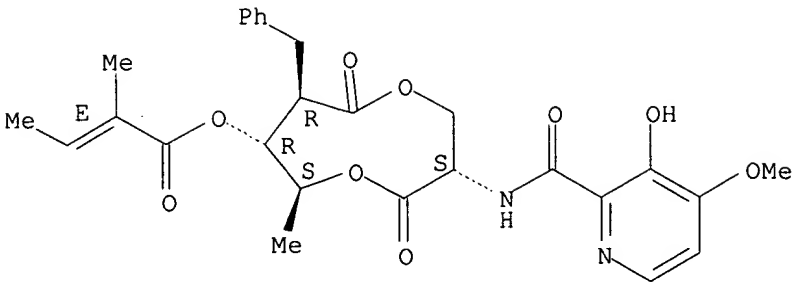
Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

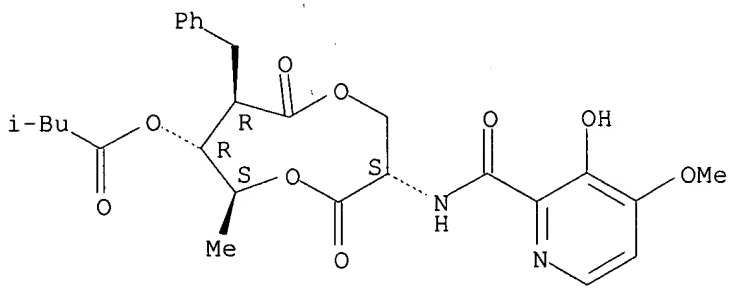
L14 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:16443 HCAPLUS
DOCUMENT NUMBER: 126:144017
TITLE: UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02. II. Structural elucidation
AUTHOR(S): Hanafi, Muhammad; Shibata, Kozo; Ueki, Masashi; Taniguchi, Makoto
CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, 558, Japan
SOURCE: Journal of Antibiotics (1996), 49(12), 1226-1231
CODEN: JANTAJ; ISSN: 0021-8820
PUBLISHER: Japan Antibiotics Research Association
DOCUMENT TYPE: Journal
LANGUAGE: English
AB UK-2A, UK-2B, UK-2C and UK-2D, novel antibiotics produced by Streptomyces sp. 517-02, exhibit strong antifungal activity. The structures were elucidated based on spectral and chemical evidence that these compds. are the derivs. of the nine-membered dilactone formed from serine and 4-hydroxypentanoic acid moiety.
IT 167173-86-6P 167173-87-7P, UK 2C 167173-88-8P, UK 2D
RL: PRP (Properties); PUR (Purification or recovery); PREP (Preparation)
(structural elucidation of UK-2A, UK-2B, UK-2C and UK-2D, novel antifungal antibiotics from Streptomyces sp. 517-02)
RN 167173-86-6 HCAPLUS
CN 2-Butenoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, (2E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



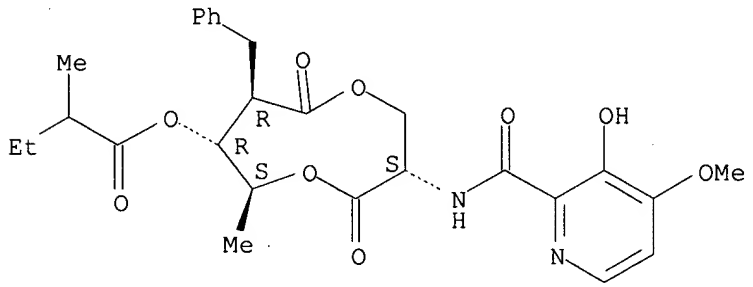
RN 167173-87-7 HCAPLUS
CN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 167173-88-8 HCAPLUS
CN Butanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Currently available stereo shown.



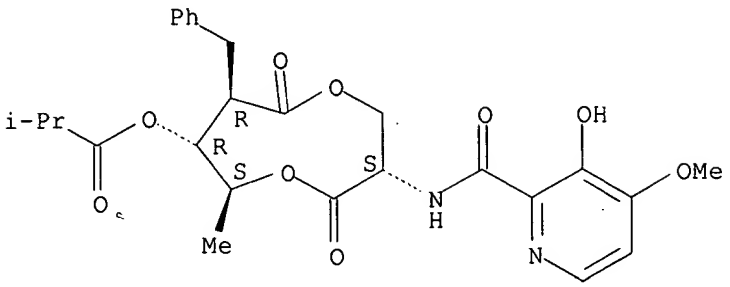
IT 167173-85-5P
RL: PRP (Properties); PUR (Purification or recovery); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(structural elucidation of UK-2A, UK-2B, UK-2C and UK-2D, novel antifungal antibiotics from Streptomyces sp. 517-02)
RN 167173-85-5 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-

Updated Search

09601655

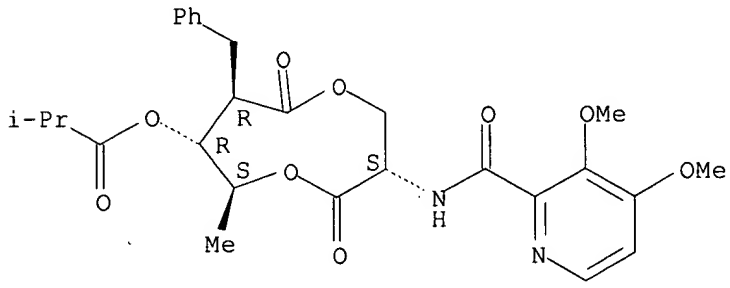
7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 186528-19-8P, O-Methyl UK 2A
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(structural elucidation of UK-2A, UK-2B, UK-2C and UK-2D, novel antifungal antibiotics from Streptomyces sp. 517-02)
RN 186528-19-8 HCAPLUS
CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3,4-dimethoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

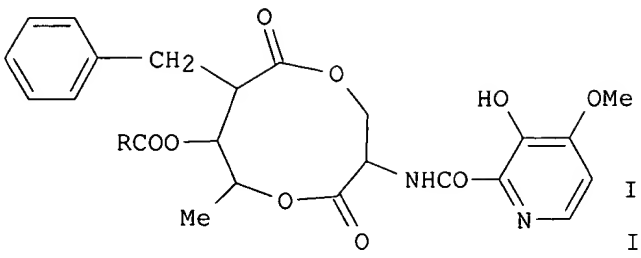
Absolute stereochemistry.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:463922 HCAPLUS
DOCUMENT NUMBER: 125:109869
TITLE: UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02. I. Fermentation, isolation, and biological properties
AUTHOR(S): Ueki, Masahi; Abe, Keiichi; Hanafi, Muhammad; Shibata, Kozo; Tanaka, Toshio; Taniguchi, Makoto
CORPORATE SOURCE: Fac. Science, Osaka City Univ., Osaka, 558, Japan
SOURCE: Journal of Antibiotics (1996), 49(7), 639-643
CODEN: JANTAJ; ISSN: 0021-8820
PUBLISHER: Japan Antibiotics Research Association
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

Updated Search



I R = $CHMe_2$

II R = CH(Me)=CHMe

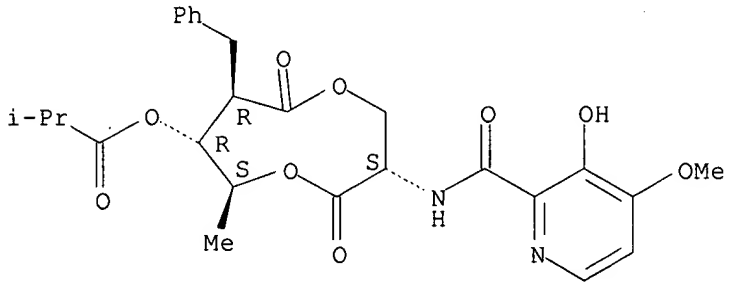
AB Novel antifungal antibiotics, UK-2A (I), UK-2B (II) and a mixture of UK-2C and UK-2D, were obtained from the mycelial cake of Streptomyces sp. 517-02. All of the UK-2 compds. were similar in structure to antimycin A. The antifungal activities of of UK-2 compds. were as strong as that of antimycin A. However, the UK-2 compds. demonstrated weak cytotoxicity compared to antimycin A.

IT 167173-85-5, UK 2A 167173-86-6, UK 2B
167173-87-7, UK 2C 167173-88-8, UK 2D
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02. I. Fermentation, isolation, and biol. properties)

RN 167173-85-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



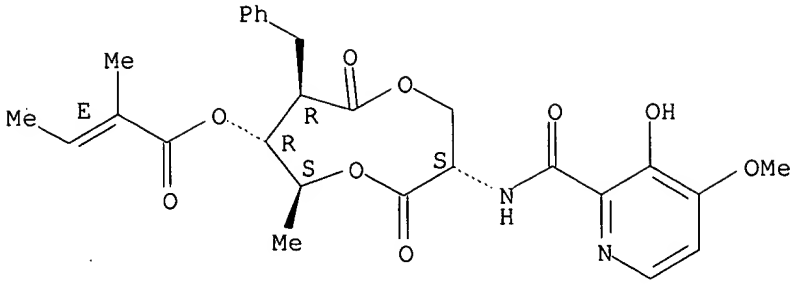
RN 167173-86-6 HCAPLUS

CN 2-Butenoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, (2E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

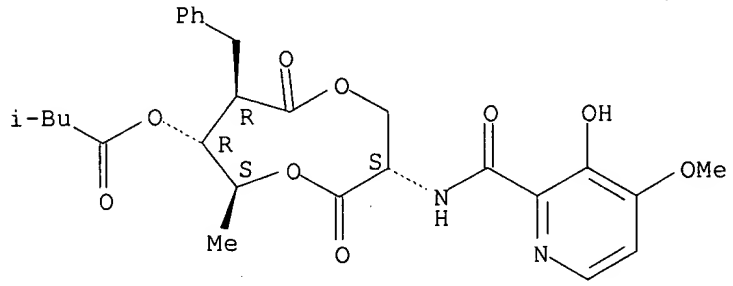
Updated Search

09601655



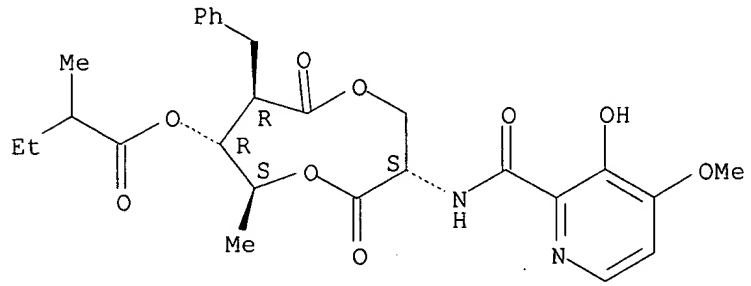
RN 167173-87-7 HCAPLUS
CN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 167173-88-8 HCAPLUS
CN Butanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Currently available stereo shown.



L14 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:934118 HCAPLUS
DOCUMENT NUMBER: 123:337552
TITLE: Fungicides manufacture with Streptoverticillium
INVENTOR(S): Taniguchi, Makoto; Shibata, Kozo; Abe, Keiichi; Kodama, Tooru; Uotani, Kazumichi; Oonishi, Yoshitaka

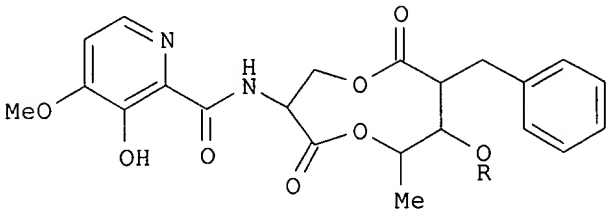
Updated Search

09601655

PATENT ASSIGNEE(S): Suntory Ltd., Japan; Meiji Seika Co.; Meiji Seika Kaisha, Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07233165	A	19950905	JP 1994-26884	19940224
JP 3526602	B2	20040517		
PRIORITY APPLN. INFO.:			JP 1994-26884	19940224

OTHER SOURCE(S): MARPAT 123:337552
GI



I

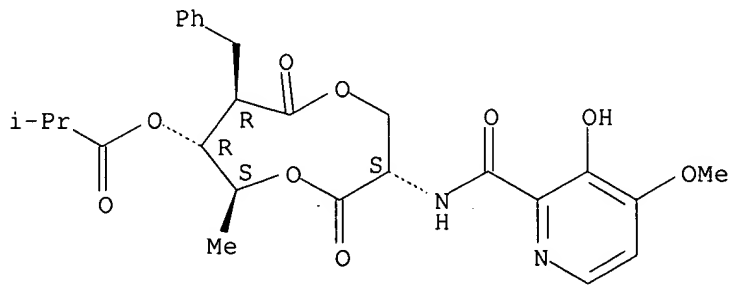
AB Fungicides (I: R = linear or branched aliphatic (un)saturated acyl group) are manufactured by culturing Streptoverticillium sp. SAM2084. Shake-culture of Streptoverticillium sp. SAM2084 for manufacture of four I wherein R = 2-methylpropanoyl (UK-2A), trans-2-methyl-2-butenoyl (UK-2B), 3-methylbutanoyl (UK-2C), and 2-methylbutanoyl (UK-2D) was shown. Also given were the physiol. and morphol. characteristics of the Streptoverticillium sp. SAM2084.

IT 167173-85-5P, UK 2A 167173-86-6P, UK 2B
167173-87-7P, UK 2C 167173-88-8P, UK 2D
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(fungicides manufacture with Streptoverticillium)

RN 167173-85-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

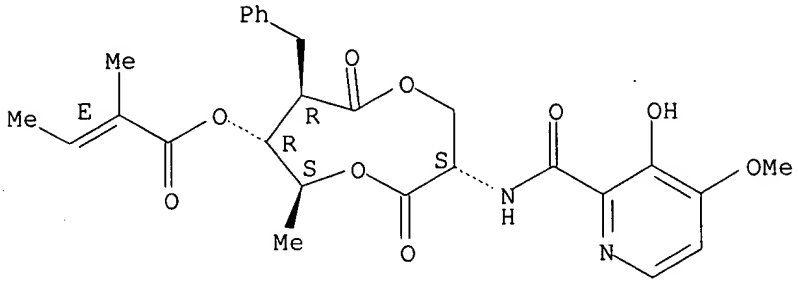


Updated Search

09601655

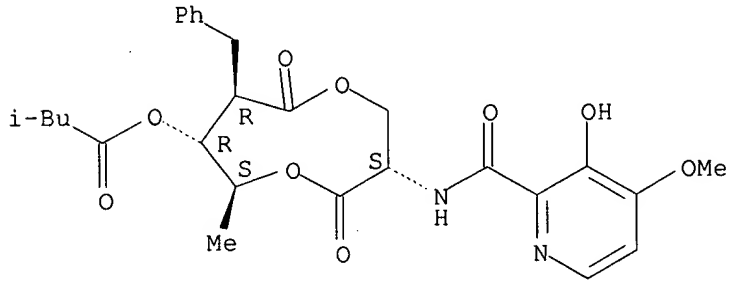
RN 167173-86-6 HCAPLUS
CN 2-Butenoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, (2E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



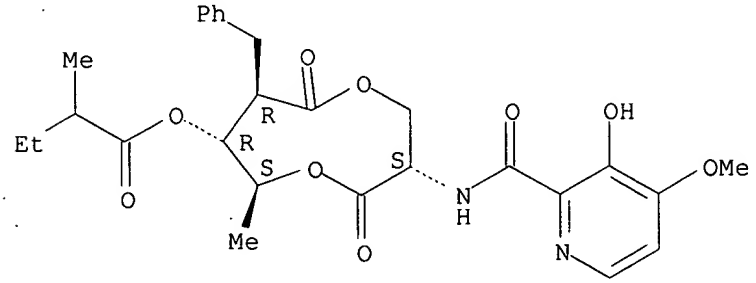
RN 167173-87-7 HCAPLUS
CN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 167173-88-8 HCAPLUS
CN Butanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Currently available stereo shown.



Updated Search

09601655

=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	115.52	296.83

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-12.48	-12.48

FILE 'CAOLD' ENTERED AT 14:46:48 ON 21 MAR 2007

FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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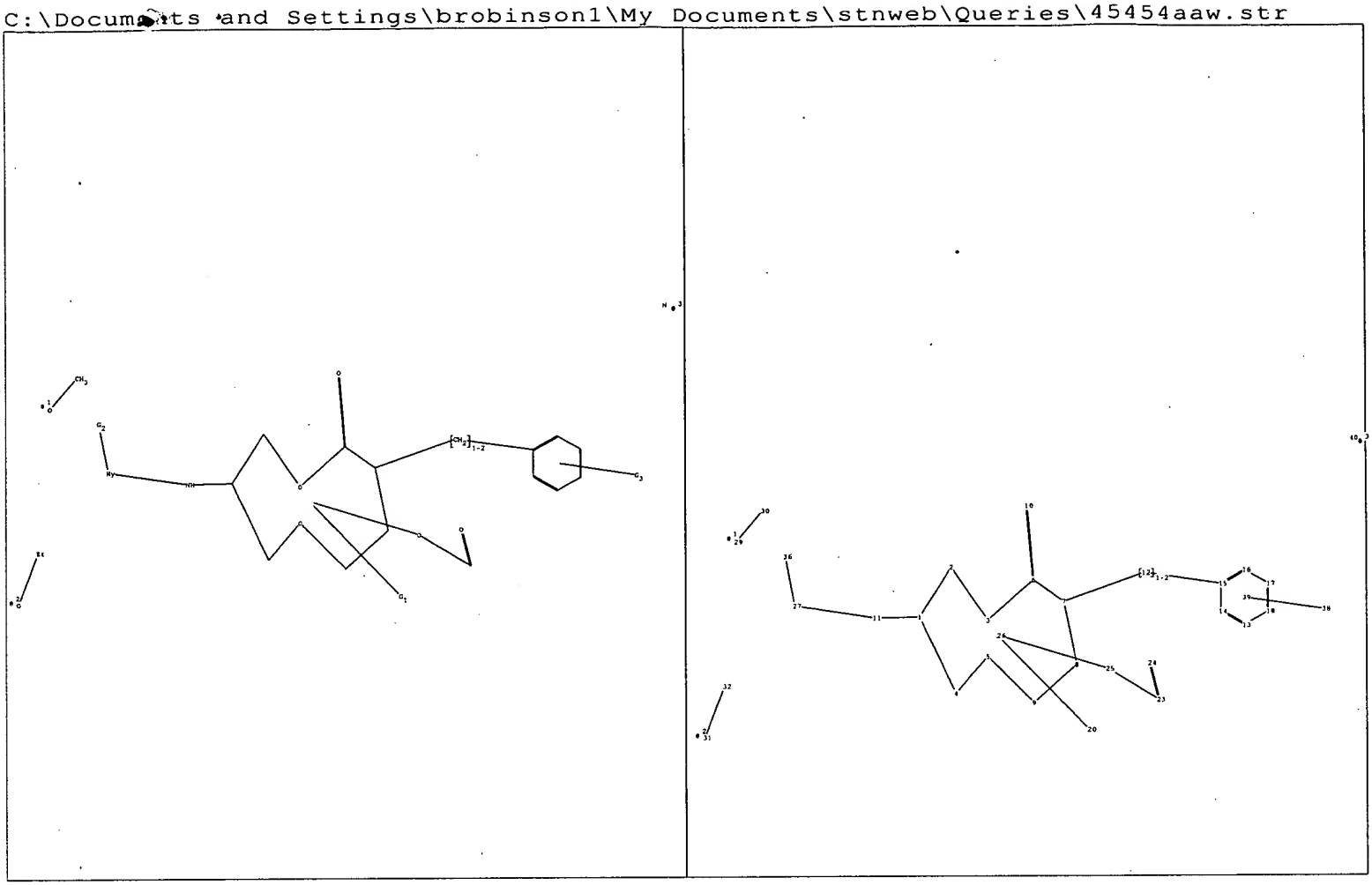
This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Updated Search

C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\45454aaw.str



chain nodes :
10 11 12 20 23 24 25 27 29 30 31 32 36 38 40
ring nodes :
1 2 3 4 5 6 7 8 9 13 14 15 16 17 18
chain bonds :
1-11 6-10 7-12 11-27 12-15 23-24 23-25 27-36 29-30 31-32
ring bonds :
1-2 1-4 2-3 3-6 4-5 5-9 6-7 7-8 8-9 13-14 13-18 14-15 15-16
16-17 17-18
exact/norm bonds :
1-11 6-10 11-27 23-24 23-25 27-36
exact bonds :
1-2 1-4 2-3 3-6 4-5 5-9 6-7 7-8 7-12 8-9 12-15 29-30 31-32
normalized bonds :
13-14 13-18 14-15 15-16 16-17 17-18
isolated ring systems :
containing 1 : 13 :

G1:CH3,Et

G2:OH,[*1],[*2]

G3:NH2,NO2,[*3]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:CLASS 11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom
18:Atom 20:CLASS 21:Atom 23:CLASS 24:CLASS 25:CLASS 26:Atom 27:Atom
29:CLASS 30:CLASS 31:CLASS 32:CLASS 36:CLASS 38:CLASS 39:Atom
40:CLASS
Generic attributes :
27:
Saturation : Unsaturated

Number of Carbon Atoms : less than 7
Number of Hetero Atoms : Exactly 1
Type of Ring System : Monocyclic

Element Count :
Node 27: Limited
C,C5
N,N1

09601655

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1612bxr

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	DEC 18	CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS 4	DEC 18	CA/CAplus patent kind codes updated
NEWS 5	DEC 18	MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS 6	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 7	DEC 27	CA/CAplus enhanced with more pre-1907 records
NEWS 8	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 9	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 10	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 11	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 12	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 13	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 14	JAN 29	PHAR reloaded with new search and display fields
NEWS 15	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 16	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 17	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 18	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 19	FEB 26	MEDLINE reloaded with enhancements
NEWS 20	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS 21	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 22	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 23	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 24	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 25	MAR 16	CASREACT coverage extended
NEWS 26	MAR 20	MARPAT now updated daily

NEWS EXPRESS	NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

Updated Search

09601655

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 15:23:15 ON 21 MAR 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 15:23:41 ON 21 MAR 2007
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8
DICTIONARY FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\45454aaw.str

L1 STRUCTURE UPLOADED

=> s l1
SAMPLE SEARCH INITIATED 15:30:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 18 TO ITERATE

100.0% PROCESSED 18 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:	ONLINE	**COMPLETE**
	BATCH	**COMPLETE**
PROJECTED ITERATIONS:	106 TO	614
PROJECTED ANSWERS:	0 TO	0

L2 0 SEA SSS SAM L1

Updated Search

09601655

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=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 15:30:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      338 TO ITERATE

100.0% PROCESSED      338 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L3             0 SEA SSS FUL L1
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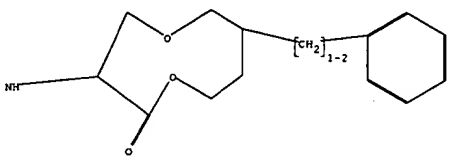
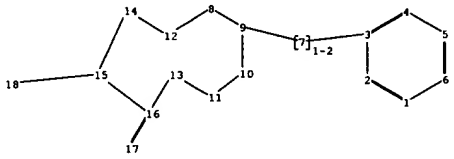
Updated Search

(Untitled)





chain nodes :
7 17 18
ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 14 15 16
chain bonds :
3-7 7-9 15-18 16-17
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-12 9-10 10-11 11-13 12-14 13-16
14-15 15-16
exact/norm bonds :
15-18 16-17
exact bonds :
3-7 7-9 8-9 8-12 9-10 10-11 11-13 12-14 13-16 14-15 15-16
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 8 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS
18:CLASS

3/21/07